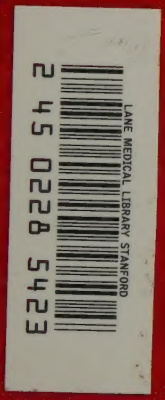
LELAND STANFORD JUNIOR UNIVERSITY

REGISTER FOR 1924-1925



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STANFORD UNIVERSITY BULLETIN

THIRTY-FOURTH

ANNUAL REGISTER

1924-25

"The beneficence of the Creator toward man on earth, and the possibilities of humanity, are one and the same."—LELAND STANFORD.

"A generous education is the birthright of every man and woman in America."—DAVID STARR JORDAN.

STANFORD UNIVERSITY, CALIFORNIA
PUBLISHED BY THE UNIVERSITY

Stanford University
Press

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OFFICE DIRECTORY

[The rooms in the Inner Quadrangle are numbered consecutively, beginning at the left of the main entrance, ten numbers being allotted to each building. In the Outer Quadrangle forty numbers are allotted to each of the larger buildings and ten numbers to each one-story building, beginning with the Assembly Hall (number 120). The Administration Building is on the north façade of the Outer Quadrangle. The Engineering buildings south of the Quadrangles begin with number 500. The Library is the central building in the second quadrangle group. The Chemistry building is on the west avenue between the Quadrangles and the Museum. Anatomy and Bacteriology are in the old Museum building.]

Administration Building:

President, room 165.

Comptroller, room 162.

Registrar, room 164.

Dean of Men, room 161.

Dean of Women, room 163a.

Academic Secretary and Alumni Secretary, room 174.

Appointment Secretary, room 170.

Lower Division Committee, room 163b.

Committee on Public Health, room 163b.

Citizenship, room 172.

The various departmental offices are given in the Schedule and in the Directory of Officers and Students.

The University Postoffice is *Stanford University, California.*

The University Telephone Office is *Palo Alto* (office and departmental telephones "Palo Alto 900" with local numbers added).

The University Railway Station and Telegraph and Express Offices are *Palo Alto, California.*

Requests for *University Bulletins,* blanks, and other printed matter, and inquiries regarding terms of admission, advanced standing, etc., should be addressed to The Registrar, *Stanford University, California.*

UNIVERSITY CALENDAR

1924

AUTUMN QUARTER

Oct.	1	Wednesday	Lower Division Registration (new students).
Oct.	2	Thursday	Registration for Autumn Quarter.
Oct.	3	Friday	Instruction begins.
Oct.	10	Friday	Conferring of Degrees.
Oct. 27–Nov.	1	Monday–Saturday	Make-up Examinations.
Nov.	27–30	Thursday–Sunday	Thanksgiving Recess.
Dec.	16–19	Tuesday–Friday	End-Quarter Examinations.

1925

WINTER QUARTER

Jan.	5	Monday	Registration for Winter Quarter.
Jan.	6	Tuesday	Instruction begins.
Jan.	9	Friday	Conferring of Degrees.
Jan.	26	Monday	Last day for changing Study Lists.
Jan.	26–31	Monday–Saturday	Make-up Examinations.
Feb.	22	Sunday	Washington's Birthday.
March	9	Monday	Founders' Day.
March	17–20	Tuesday–Friday	End-Quarter Examinations.

SPRING QUARTER

March	30	Monday	Registration for Spring Quarter.
March	31	Tuesday	Instruction begins.
April	3	Friday	Conferring of Degrees.
April	20	Monday	Last day for changing Study Lists.
April	20–25	Monday–Saturday	Make-up Examinations.
June	13–17	Saturday–Wednesday	End-Quarter Examinations.
June	20	Saturday	Alumni Day.
June	21	Sunday	Baccalaureate Sunday.
June	22	Monday	Commencement.

SUMMER QUARTER

June	23	Tuesday	Registration for Summer Quarter.
June	24	Wednesday	Instruction begins.
July	4	Saturday	Independence Day.
July	27	Monday	Second Half begins.
Aug.	27–29	Thursday-Saturday	End-Quarter Examinations.

ADMINISTRATIVE OFFICERS

THE BOARD OF TRUSTEES

[The figures in parentheses indicate year of beginning of service.]

WALLACE MCKINNEY ALEXANDER, Ph.B. (1924), 215 Market St., San Francisco
FRANK BARTOW ANDERSON (1912), California and Sansome, San Francisco
HARRY CHANDLER (1923), Times Office, Los Angeles
LELAND WHITMAN CUTLER, A.B. (1920), Insurance Exchange Bldg., San Francisco
FRANK PRENTISS DEERING, A.M. (1916), Nevada Bank Bldg., San Francisco
JOSEPH DONOHOE GRANT, A.B. (1891), 114 Sansome, San Francisco
THOMAS TINGEY CRAVEN GREGORY, A.B. (1919) Balfour Bldg., San Francisco
HERBERT CLARK HOOVER, LL.D. (1912), Washington, D. C.
TIMOTHY HOPKINS (1885), Nevada Bank Bldg., San Francisco
IRA SHELL LILLICK, A.B. (1923), 900 Balfour Bldg., San Francisco
CHRISTIAN OTTO GERBERDING MILLER (1923), 519 Calif. St., San Francisco
WILLIAM MAYO NEWHALL, B.S. (1912), 260 Calif. St., San Francisco
JOHN THOMAS NOURSE, A.B. (1920), 2 State Bldg., San Francisco
PAUL SHOUP (1923), Southern Pacific Bldg., San Francisco
MARCUS CAUFFMAN SLOSS, A.M. (1920), Mills Bldg., San Francisco

OFFICERS OF THE BOARD

President: WILLIAM MAYO NEWHALL.
Vice-President: MARCUS CAUFFMAN SLOSS.
Secretary-Treasurer: THOMAS TINGEY CRAVEN GREGORY.
Assistant Secretary and Assistant Treasurer: IRA SHELL LILLICK.

STANDING COMMITTEES OF THE BOARD

Finance: ANDERSON, CUTLER, GRANT, GREGORY, HOPKINS, MILLER, NEWHALL, SHOUP.
University: LILLICK, CHANDLER, DEERING, HOOVER, NEWHALL, NOURSE, SLOSS.
Library: HOPKINS, HOOVER, NOURSE.
Rules: GREGORY, NOURSE, SLOSS.
Campus: CUTLER, GREGORY, HOOVER, HOPKINS.
Medical Sub-Committee: NOURSE, GREGORY.

THE STANFORD NATIONAL BOARD

RICHARD WATTS BARRETT, A.B., 383 Jayne, Oakland
CHARLES REYNOLDS BROWN, LL.D., Yale Divinity School, New Haven, Conn.
HUGH HENRY BROWN, A.B., 801 Foxcroft Bldg., San Francisco
NATHANIEL ALLEN CARLE, A.B., Public Service Electric Co., Newark, N. J.
NEWTON CLEAVELAND, A.B., Insurance Exchange Bldg., San Francisco
JOHN TITUS COOPER, A.B., Security Trust & Savings Bank, Los Angeles
CHARLES MAURICE CRAM, LL.B., Tremont Bldg., Boston, Mass.
WILLIAM HENRY CROCKER, Ph.B., Crocker National Bank, San Francisco
WALTER F. DILLINGHAM, Honolulu, T. H.
GEORGE ARMAND DITZ, J.D., Box 415, Stockton
MILTON ESBERG, B.L., 601 Third St., San Francisco
CHARLES KELLOGG FIELD, A.B., 460 Fourth St., San Francisco
FORREST STARKEY FISHER, A.B., 630 Montgomery Drive, Portland, Ore.
FRANK PUTNAM FLINT, Title Insurance Bldg., Los Angeles
WILLIAM HENRY BEGBIE FOWLER, A.B., San Francisco Chronicle, San Francisco
FRANK LOUIS GUERENA, J.D., State Bldg., San Francisco
WALTER RALEIGH HAMILTON, A.B., 1325 S. Boston, Tulsa, Okla.
BRODIE GILMAN HIGLEY, A.B., 100 Broadway, New York, N. Y.
GUY KNUPP, A.B., Porterville
HAROLD PHILLIPP KUHN, M.D., 1025 Rialto Bldg., Kansas City, Mo.
EDGAR AUGUSTINE LUCE, A.B., 1744 Second, San Diego
JOHN COBB MACFARLAND, A.B., Merchants Nat'l Bank Bldg., Los Angeles
GEORGE THOMAS MARYE, LL.B., 467 O'Farrell, San Francisco
HANS CHRISTIAN NELSON, J.D., Eureka
FREDERICK WILLIAM NOBS, A.B., Grass Valley
FREDERICK FORREST PEABODY, Santa Barbara
HENRY MAURIS ROBINSON, First National Bank, Los Angeles
CHARLES A. SHURTLEFF, Menlo Park
NATHANIEL GARDNER SYMONDS, A.B., 111 W. Washington, Chicago, Ill.
CHARLES COLLINS TEAGUE, Santa Paula

THE UNIVERSITY

[Office in parentheses]

President: Ray Lyman Wilbur. (Adm. 165.)
Comptroller: Almon Edward Roth. (Adm. 162.)
Registrar: Orrin Leslie Elliott. (Adm. 164.)
Director of the University Libraries: George Thomas Clark. (Library.)
Academic Secretary: John Ezra McDowell. (Adm. 174.)
Dean of Women: Mary Yost. (Adm. 163a.)
Dean of Men: George Bliss Culver. (Adm. 161a.)
Dean of the School of Education: Ellwood Patterson Cubberley. (51.)
Dean of the Law School: Marion Rice Kirkwood. (1.)
Dean of the School of Medicine: William Ophüls. (San Francisco.)
Dean of Graduate Study: Edward Curtis Franklin. (c35.)
Chaplain: David Charles Gardner. (Vestry.)
Appointment Secretary: Elizabeth Burritt Snell. (Adm. 171.)
Medical Adviser of Women: Clelia Duel Mosher. (Roble Gymnasium.)
Medical Adviser of Men: William Hulbert Barrow. (Encina Gymnasium.)

DEPARTMENT EXECUTIVES

[Office in parentheses]

Anatomy: Arthur William Meyer. (a7.)
Applied Mathematics: Leander Miller Hoskins. (275.)
Bacteriology and Experimental Pathology: Edwin William Schultz. (b4.)
Botany: Douglas Houghton Campbell. (468.)
Chemistry: Robert Eckles Swain. (c10.)
Civil Engineering: Charles Benjamin Wing. (278.)
Classical Literature: Henry Rushton Fairclough. (257.)
Economics: Murray Shipley Wildman. (223.)
Education: Ellwood Patterson Cubberley. (51.)
Electrical Engineering: Harris Joseph Ryan. (505.)
English: John S. P. Tatlock. (206.)
Geology: Eliot Blackwelder. (340.)
Germanic Languages: William Alpha Cooper. (116.)
History: Payson Jackson Treat. (236.)
Law: Marion Rice Kirkwood. (1.)
Mathematics: Robert Edgar Allardice. (70.)

Mechanical Engineering: Guido Hugo Marx. (260.)
Medicine: William Ophüls. (San Francisco.)
Anatomy: Arthur William Meyer. (a7.)
Bacteriology and Experimental Pathology: Edwin William Schultz. (b4.)
Chemistry: Robert Eckles Swain. (c10.)
Hygiene and Public Health: William Ophüls. (San Francisco.)
Medicine: Albion Walter Hewlett. (San Francisco.)
Obstetrics and Gynecology: Alfred Baker Spalding. (San Francisco.)
Pathology: William Ophüls. (San Francisco.)
Pharmacology: Paul John Hanzlik. (San Francisco.)
Physiology: Ernest Gale Martin. (482.)
Surgery: Stanley Stillman. (San Francisco.)
Military Science and Tactics: William D. Geary.
Mining and Metallurgy: Theodore Jesse Hoover. (552.)
Philosophy: Henry Waldgrave Stuart. (93.)
Physics: David Locke Webster. (389.)
Physiology: Ernest Gale Martin. (482.)
Political Science: Victor J. West. (22.)
Psychology: Lewis Madison Terman. (399.)
Romanic Languages: Oliver Martin Johnston. (246.)
Zoology: Charles Henry Gilbert. (443.)

Citizenship: Edgar Eugene Robinson. (Adm. 172.)
Food Research: Joseph Stancliffe Davis. (34.)
Hoover War Library: Ephraim Douglass Adams. (237.)
Memorial Church: David Charles Gardner.
Museum: Pedro J. Lemos.
Physical Education—
Men: William Hulbert Barrow.
Women: Helen Masters Bunting.
School of Biology: Ernest Gale Martin. (482.)
School of Social Sciences: Murray Shipley Wildman. (223.)
University Libraries: George Thomas Clark.

STANDING COMMITTEES OF THE ACADEMIC COUNCIL

[The first-named member in each committee is Chairman, unless otherwise indicated. The term of office of members of the Executive Committee begins immediately upon election (in May); of all other standing committees, September 1st.]

ADVISORY BOARD

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3. Registration: ELLIOTT, CANNING, R. H. LUTZ, MITCHELL, RUSSELL.
4. Graduation: FAIRCLOUGH, BLACKWELDER, DANFORTH, ELLIOTT, MILES.
5. Schedule and Examinations: KIRKWOOD, ELLIOTT, MITCHELL, SEARS, SNYDER.
6. Graduate Study: FRANKLIN, ALSBERG, FAIRCLOUGH, HOSKINS, MEYER, PEIRCE, RYAN, J. P. SMITH, H. W. STUART, TATLOCK, WILDMAN.
7. Library: SWAIN, COOPER, T. L. KELLEY, TREAT, REYNOLDS.
8. University Publications: TOWNLEY, ADAMS, FERRIS, HOOVER, H. L. LUTZ.

OFFICERS OF INSTRUCTION AND ADMINISTRATION

[Name; office; residence telephone; title; residence; postoffice. Postoffice in all cases *Stanford University* except where University residence is followed by initial letter of town ("p" indicates *Palo Alto* postoffice; "Mayfield-m" *Mayfield* postoffice, etc.). Street address *Palo Alto* or *Campus* unless otherwise named. Brackets indicate absence on leave for the year. The dagger (†) marks the names of men who are married.]

Emeritus List

Anderson, Melville Best, Menlo Park 773
Professor of English Literature, Emeritus, Menlo Park-mp
A.M., Butler University, 1877; LL.D., Aberdeen, 1906. At Stanford since 1891, Emeritus since 1910.

Angell, Frank, PA 87
Professor of Psychology, Emeritus, 1200 Bryant-p
B.S., Vermont, 1878; Ph.D., Leipzig, 1891; L.H.D., Vermont, 1892. At Stanford since 1892, Emeritus since 1922.

†Barkan, Adolph,
Professor of Structure and Diseases of Eye, Ear, and Larynx, Emeritus, 2209 Laguna, SF-sf
M.D., University of Vienna, 1866; LL.D., University of Glasgow, 1901. At Stanford since 1909, Emeritus since 1911.

§Carruth, William Herbert,
Professor of Comparative Literature, Emeritus,

†Cooper, Charles Miner, Fillmore 1821
Clinical Professor of Medicine, Emeritus, 2550 Buchanan, SF-sf
M.B.Ch.B., Edinburgh, 1897. At Stanford since 1918, Emeritus since 1922.

†Durand, William Frederick, PA 1582
Professor of Mechanical Engineering, Emeritus, 11 Cabrillo
Graduate U. S. Naval Academy, 1880; Ph.D., Lafayette, 1888; LL.D., California, 1924. At Stanford since 1904, Emeritus since 1924.

Griffin, James Owen, PA 1054
Professor of German, Emeritus, 14 Alvarado
Graduate Pennsylvania State Normal School, 1873. At Stanford since 1891, Emeritus since 1917.

†Jenkins, Oliver Peebles, PA 1151M
Professor of Physiology and Histology, Emeritus, 3 Lasuen
A.B., Moore's Hill College, 1869, A.M., 1872; M.S., Indiana, 1886, Ph.D., 1889; LL.D., Moore's Hill College, 1916. At Stanford since 1891, Emeritus since 1916.

†Jordan, David Starr, PA 1001
Chancellor Emeritus, Serra House
M.S., Cornell, 1872; M.D., Indiana Medical College, 1875; Ph.D., Butler College, 1878; LL.D., Cornell, 1886, Johns Hopkins, 1902, Illinois College, 1903, Indiana, 1909, California, 1915, Western Reserve, 1915. President of the University, 1891–1913, Chancellor, 1913–16, Emeritus since 1916.

Martin, Lillien Jane, Sutter 3489
Professor of Psychology, Emeritus, 821–822 Shreve Bldg., SF-sf
A.B., Vassar, 1880; M.L.A., and honorary Ph.D., Bonn, 1913. At Stanford since 1899, Emeritus since 1916.

§ Deceased December 15, 1924.

†MARX, CHARLES DAVID, PA 255
Professor of Civil Engineering, Emeritus, 357 Kingsley
B.C.E., Cornell, 1878; C.E., Karlsruhe Polytechnicum, 1881; LL.D., California, 1918. At Stanford since 1891, Emeritus since 1923.

†SANFORD, FERNANDO, PA 646
Professor of Physics, Emeritus, 450 Kingsley-p
B.S., Carthage College, 1879, M.S., 1882. At Stanford since 1891, Emeritus since 1919.

†WILLIS, BAILEY, PA 1118
Professor of Geology, Emeritus, 5 Lasuen
E.M., Columbia School of Mines, 1878, C.E., 1879; Hon. Ph.D., University of Berlin, 1910. At Stanford since 1915, Emeritus since 1922.

ACTIVE LIST

†ABRAMS, LE ROY, (1234) PA 1125
Professor of Botany, 19 Cabrillo
A.B., Stanford, 1899, A.M., 1902; Ph.D., Columbia, 1910. Acting Professor of Botany, University of Idaho, 1899–1900; Assistant in Botany, Stanford University, 1900–02, Instructor, 1902–04; Fellow in Botany, Columbia University, 1904–05; Assistant Curator, Division of Plants, United States National Museum, 1905–06; Lecturer in Botany, University of California, first semester, 1915–16; Field Assistant, U. S. Department of Agriculture, summer, 1918. At Stanford 1900–04, and since 1906.

†Adams, EPHRAIM DOUGLASS, (24) PA 1058
Professor of History, 7 Cabrillo
A.B., Michigan, 1887, Ph.D., 1890; LL.D., Grinnell, 1917; Litt.D., Tufts, 1918. Principal of High School, McGregor (Ia.), 1887; Principal of High School, Saginaw (Mich.), 1889; Special Agent in Charge of Street Railways, Eleventh Census, Washington (D.C.), 1890; Assistant Professor and afterward Professor of European History, University of Kansas, 1891–1902. At Stanford since 1902.

†ADDIS, THOMAS, (1234) Sausalito 350
Professor of Medicine, 201 San Carlos, Sausalito-s
M.B.Ch.B., Edinburgh, 1905; M.D., and M.R.C.P., 1908. Clinical Assistant, Medical Out-Patient Department, Royal Infirmary of Edinburgh, 1908, 1911; Medical Registrar, Leith Hospital, 1911; Carnegie Research Scholar and Fellow, 1908–11; Director of the Clinical Laboratory, Lane Hospital, since 1911. At Stanford since 1911.

§ALDEN, RAYMOND MACDONALD,
Professor of English,
A.B., Pennsylvania, 1894; A.M., Harvard, 1896; Ph.D., Pennsylvania, 1898. Instructor in English, Columbia University, 1894–95; Assistant in English, Harvard University, 1896–97; Senior Fellow in English, University of Pennsylvania, 1898–99, Instructor, 1899–1901; Assistant Professor of English Literature and Rhetoric, Stanford University, 1901–09, Associate Professor of English, 1909–11; Professor of English, University of Illinois, 1911–14; Acting Associate Professor, University of Chicago, Summer Quarter, 1910; Acting Professor, Harvard University, Summer Session, 1912. Columbia University, 1916, 1919, 1923–24. At Stanford 1901–11, and 1914–24.

†ALDERSON, HARRY EVERETT, (1234) Fillmore 4548
Clinical Professor of Medicine (Dermatology), 2649 Green, SF-sf
M.D., California, 1900. Assistant in Skin Diseases, Medical Department of University of California, 1906–12; Professor of Art Anatomy, California School of Design, 1906–12; Chief of Skin Clinic, San Francisco Fruit and Flower Mission. At Stanford since 1912.

---

§ Deceased September 27, 1924.

ALLARDICE, ROBERT EDGAR, (123) PA 1036
Professor of Mathematics, County Road
A.M., Edinburgh, 1882. Baxter Scholar in Mathematics, University of Edinburgh, 1882–83, Drummond Scholar in Mathematics, 1883–84; Assistant Professor of Mathematics, University of Edinburgh, 1883–92. At Stanford since 1892.

†ALLEN, CLIFFORD GILMORE, (124) PA 1923W
Professor of Romanic Languages, 25 Alvarado
A.B., Boston, 1900; A.M., Stanford, 1903; Docteur de l'Université de Paris, 1916. Student, University of Paris, 1903–04; Fellow of Boston University and Student at Universities of Paris and Madrid, 1904–05. At Stanford since 1901.

†ALLEN, WARREN D., (1234) PA 865
Organist, 31 Alvarado
Associate, American Guild of Organists; Pupil of Rudolph Ganz and Alex von Fielitz, Berlin, 1909–10; studied organ with C. M. Widor, Paris, 1911; member of Busoni Class, Basel, Switzerland, September, 1910; Dean of Conservatory of Music, College of the Pacific, 1913–19. At Stanford since 1918.

†ALMACK, JOHN CONRAD, (1234)
Associate Professor of Education, 33 Alvarado
A.B., Oregon, 1918, A.M., 1920; Ph.D., Stanford, 1923. Principal and Superintendent of Schools, Rockford (Wn.), 1905–15, Mayor, 1909–12; Editor, Colfax (Wn.), 1915–16; Superintendent of Schools, Coquille (Ore.), 1916–17; Assistant in Education, University of Oregon, 1917–18, Professor of Education and Director of Extension Education, 1918–21; Teaching Fellow, Stanford University, 1921–22. At Stanford since 1922.

ALMOND, NINA, (1234) PA 1151M
Librarian, Hoover War Library, 3 Lasuen

†ALSBERG, CARL LUCAS, (1234) PA 2269J
Director, Food Research Institute, 10 Mirada
A.B., Columbia, 1896, A.M., 1900, M.D., (College of Physicians and Surgeons), 1900. Student, Universities of Strassburg and Berlin, 1900–03; Assistant in Physiological Chemistry, Harvard University, 1902–05, Instructor in Biological Chemistry, 1905–08; Chemical Biologist, Bureau of Plant Industry, United States Department of Agriculture, 1908–12; Chief, Bureau of Chemistry, 1912–21. At Stanford since 1921.

†ANDERSON, FREDERICK, (123) PA 1416J
Assistant Professor of French, Cedro Cottage
A.B., Stanford, 1911; A.M., Harvard, 1912; Ph.D., Yale, 1915. Instructor in French and Spanish, Reed College, 1912–13, Sheffield Scientific School, 1913–14, Yale University, 1914–15; Fellow in Yale University, 1914–15. At Stanford since 1920.

†ANDERSON, HENRY STOW, (123) PA 1736J
Instructor in Citizenship, 411 Yale, College Terrace-Box 83, m
A.B., Stanford, 1922, A.M., 1923. Lecturer in Problems of Citizenship, San Francisco State Teachers' College, 1924. At Stanford since 1923.

†ARNOLD, CLEMENT HARISSE, (123) Pacific 9240
Clinical Instructor in Medicine, 3829 Jackson, SF-sf
A.B., Stanford, 1910; M.D., Johns Hopkins, 1918. At Stanford since 1919.

†ASHLEY, REA ERNEST, (123) Bayview 5905
Clinical Instructor in Surgery (Otology, Rhinology, Laryngology), 16 5th Ave., SF-rf
B.S., University of Illinois, 1917, M.D., 1919. Assistant, Department of Bacteriology and Pathology, University of Illinois, 1917–19; Assistant Resident Physician, Stanford University Hospital, 1919–20, Resident, Ear, Nose, and Throat, 1920–22. At Stanford since 1921.

ATWELL, RUTH HARRIETT, (4) PA 1059
Acting Director of Roble Gymnasium, and Instructor in Physical Education (Summer Quarter), 10 Salvatierra
Ph.B., Denison, 1918. Graduate of Department of Physical Education and Hygiene, Wellesley College, 1920; Assistant Professor and Director of Physical Education, Denison University, 1920–23; Instructor in Physical Education, in Schools of Cairo, Egypt, 1923–24; Supervisor of Physical Education for Girls, Zanesville (O.) Public Schools, 1924–25; Director of Physical Education, Hollins College, since 1925.

†BACHER, JOHN ADOLPH, (1234) Pacific 3334
Associate Clinical Professor of Surgery (Otology, Rhinology, Laryngology), 157 25th Ave., SF-sf
A.B., Stanford, 1899; M.D., Harvard, 1911. At Stanford since 1917.

BAILEY, MARGERY, (1234) PA 2363J
Instructor in English, 723 Hamilton
A.B., Stanford, 1914, A.M., 1916; Ph.D., Yale, 1922. Fellow in English, Yale University, 1921–22. At Stanford since 1914.

†BARKAN, HANS, (123) Fillmore 22
Assistant Clinical Professor of Surgery (Ophthalmology), 2209 Laguna, SF-sf
A.B., Stanford, 1905; M.D., Harvard Medical School, 1910. Assistant in Pathology, Harvard Medical School, 1910–11, Instructor, 1911–12; Pathologist to the Long Island Hospital and Boston City Almshouse, 1911–12; Voluntary Assistant, II, Eye Clinic, Vienna, 1912–14. At Stanford since 1914.

†BARKAN, OTTO, (12) Fillmore 3353
Clinical Instructor in Surgery (Ophthalmology), 2058 Vallejo, SF-sf
A.B., Trinity College, Oxford, 1909.

†BARNETT, GEORGE DE FOREST, (123) PA 899
Associate Professor of Medicine, 15 Mirada
A.B., Stanford, 1906, A.M., 1909, M.D., 1913. Instructor in Chemistry, Stanford University, 1909–10; Student, Johns Hopkins Medical School, 1910–12; Senior House Officer, Lane Hospital, 1914–15; Lieutenant, M.C., U.S.N., R.F., 1917–19. At Stanford since 1915.

†BARROW, WILLIAM HULBERT, (1234) PA 883
Professor of Physical Education, Medical Adviser of Men, Director of Encina Gymnasium, 17 Salvatierra
A.B., Harvard, 1908, M.D., 1916. House Officer, Medical Service, Peter Bent Brigham Hospital, Boston, 1916–17; First Lieutenant and Captain M. C., U.S.A., 1917–21; A.E.F., 1917–19; Medical Supervisor and Athletic Adviser, Middlesex School, Concord (Mass.), 1921–22. At Stanford since 1922.

†BASSETT, LEE EMERSON, (123) PA 2098
Professor of English, 9 Cabrillo
A.B., Stanford, 1901. Graduate, Cumnock School of Oratory, Los Angeles, 1898; Instructor in Public Speaking, University of Southern California, 1898–99; Student, School of Expression, Boston, 1901; Acting Associate Professor of Public Speaking, University of Washington, 1912–13; Professor of Public Speaking, University of Colorado, Summer Session, 1919, 1923, University of California, Intersession, 1922. At Stanford since 1900.

†BAUMBERGER, JAMES PERCY, (123) PA 442J
Assistant Professor of Physiology, 328 Churchill
B.S., California, 1914; M.S., Harvard, 1916. D.Sc., 1918. Student, Yale Army Laboratory School, 1918; Assistant in Zoology, Harvard University, 1914–18, Assistant in Botany, 1918, Austin Teaching Fellow in Zoology, 1917–18; Assistant in Physiology, Radcliffe College, 1917, Assistant in Entomology, 1918; Instructor in Natural Sciences, Lowthorpe Horticulture School, 1915–18; Traumatic Shock Laboratory, A.E.F., 1918–19. At Stanford since 1919.

†BEACH, EDWARD LATIMER, (12) PA 1612
Lecturer in Naval and Military History, 525 Channing-p
Graduate, U. S. Naval Academy, 1888. Instructor, U. S. Naval Academy, 1901–03, 1906–08; Captain, U. S. Navy, retired. At Stanford since 1921.

†BEACH, WALTER GREENWOOD, (123) PA 1172R
Professor of Social Science, 540 University
A.B., Marietta, 1888; A.B., Harvard, 1891, A.M., 1892. Professor of Philosophy and History, Marietta College for Women, 1893–97; Student, Stanford University, 1897–98; Assistant Professor and afterward Professor and Head of Department of Economic Science and History, State College of Washington, 1898–1910; Professor of Social Science, University of Washington, 1910–17; Dean of College of Sciences and Arts, and Professor of Social Science, State College of Washington, 1917–20. At Stanford since 1920.

†BECKING, LAWRENCE B., (123) PA 254M
Assistant Professor of Economic Biology, 25 Mirada
A.B., Utrecht, 1917, M.S., 1919, D.Sc., 1921; Ph.D., Stanford, 1921. At Stanford since 1920.

BENJAMIN, E. GAIL, (1234) PA 734W
Statistical Associate, Food Research Institute, 151 Kellogg-p

†BENNETT, MERRILL KELLEY, (1234) PA 1750W
Junior Research Associate, Food Research Institute, 140 Churchill
Ph.B., Brown, 1920, A.M., 1921.

BERGSTROM, FRANCIS WILLIAM, (234) PA 1042W
Instructor in Chemistry, 25 Salvatierra
A.B., Stanford, 1918, Engineer, 1919, Ph.D., 1922. National Research Fellow in Chemistry at Clark and Brown Universities, 1922–25. At Stanford since 1925.

†BINGHAM, JOSEPH WALTER, (123) PA 1585W
Professor of Law, 653 Melville
A.B., Chicago, 1902, J.D., 1904. In practice of law, Chicago, 1904–05; Acting Assistant Professor of Law, Cornell University, 1905–07; Professor of Law, University of Chicago, Summer Quarter, 1916. At Stanford since 1907.

†BINKLEY, ROBERT CEDRIC, (1234) PA 2249R
Reference Librarian, Hoover War Library University Park
A.B., Stanford, 1922, A.M., 1924. At Stanford since 1924.

†BLACKWELDER, ELIOT, (13) PA 895R
Professor of Geology, Escondite Cottage
A.B., Chicago, 1901, Ph.D., 1914. Fellow and Assistant in Geology, University of Chicago, 1902–03; Paleontologist, Carnegie Institution Expedition to China, 1903–04; Instructor and afterward Professor of Geology, University of Wisconsin, 1905–16; Professor and Head of Department of Geology, University of Illinois, 1916–19; Lecturer in Geology, University of Chicago, 1907, 1916, Stanford University, 1919, Harvard University, 1921–22; Geologist, U. S. Geological Survey, 1902, 1906–18; Chief Geologist, Argus Oil Company, 1919–21; Manager, Teton Syndicate, 1921–22. At Stanford since 1922.

†BLAIR, JOHN EDWARD, (124) PA 469
Instructor in Bacteriology, 520 University
A.B., Clark, 1920; M.S., Brown, 1921, Ph.D., 1923. Graduate Assistant in Biology, Brown University, 1920–21, Instructor, 1921–22, Arnold Fellow in Biology, 1922–23. At Stanford since 1923.

†BLAISDELL, FRANK ELLSWORTH, (123) Pacific 3482
Professor of Surgery, 1520 Lake, SF-sf
M.D., Cooper Medical College, 1889. Demonstrator of Anatomy, Cooper Medical College, 1903, Instructor in Biology and Embryology, 1900–09, in Histology, 1907–09. Assistant Professor of Anatomy, 1904–05, Associate Professor, 1907–12. At Stanford since 1910.

BLICHFELDT, HANS FREDERIK, (123) PA 435
Professor of Mathematics, College Terrace
A.B., Stanford, 1896; Ph.D., Leipzig, 1898. At Stanford since 1898.

†BOARDMAN, WALTER WHITNEY, (123) Fillmore 2506
Associate Clinical Professor of Medicine (Actinography), 37 Walnut, SF-sf
M.D., Cooper Medical College, 1909. Assistant in Phipps Dispensary, Johns Hopkins Hospital, 1910, Assistant in Actinography and Externe in Gynecology, 1911. At Stanford since 1912.

†BOEZINGER, BRUNO, (123) PA 798W
Associate Professor of German, Menlo Heights
A.B., Fort Worth University, 1894, A.M., 1895; Ph.D., Stanford, 1910. Instructor in German, North Texas Normal School, 1895–98; Principal, German Department, San Antonio (Tex.) H. S., 1899–1906; Instructor in German, Summer School, University of Texas, 1896. At Stanford since 1906.

BRAND, CARL FREMONT, (123) PA 1680
Assistant Professor of History, 220 Stanford Union
A.B., Indiana, 1915, A.M., 1916; A.M., Harvard, 1918, Ph.D., 1923. Teacher of History, Hammond (Ind.), H. S., 1916–17; University Scholar, Harvard University, 1917–18, Austin Teaching Fellow, 1918–19; Instructor in History, Smith College, 1919–20; Parker Traveling Fellow, Harvard University, 1920–21; Instructor in History, University of Michigan, 1921–24. At Stanford since 1924.

BRAND, ELIZABETH MORGAN, (1234) PA 1270J
Secretary to Dr. Taylor, Food Research Institute, Kingscote
At Stanford since 1920.

†BRANDSTEN, ERNST M., (123)
Associate Director of Encina Gymnasium, Searsville Lake Park
Teacher of Swimming, Municipal Baths, Stockholm, Sweden, 1905; Swimming Coach, Neptune Swimming Club, Stockholm, 1906, University of California, 1911, 1913–15. At Stanford since 1915.

†BRIGGS, WILLIAM DINSMORE, (1234)
Associate Professor of English, County Road
A.B., Stanford, 1896; A.M., Harvard, 1899, Ph.D., 1900. Student, Johns Hopkins University, 1896–97; Instructor in English and German, University of Vermont, 1900–01; Instructor in English, Western Reserve University, 1901–06. At Stanford since 1906.

BROWN, ADELAIDE, (123) Pacific 999
Lecturer in Medicine (Child Hygiene), 45 16th Ave., SF-sf
A.B., Smith, 1888; M.D., Cooper Medical College, 1892. Interne, New England Hospital, Boston (Mass.), 1893; Studying in Germany, 1894; General Practice, San Francisco, since 1894; Obstetrician to Alexander Maternity, 1899–1915.

†BROWN, BUFORD O., (123) PA 288
Assistant Professor of Journalism, 30 Encina Ave.
A.B., Missouri, 1908, B.J., 1912. Bursar, Polytechnic College (Tex.), 1909–11; Instructor in Journalism, University of Texas, 1914–17; Special Lecturer, Texas Agricultural and Mechanical College, Summer Sessions, 1922, 1923; Editor Plainview (Tex.) *Evening Herald,* 1912–14, Vernon (Tex.) *Record,* 1918–22; Staff Correspondent, Wichita Falls (Tex.) *Times,* 1922. At Stanford since 1923.

†BROWN, HAROLD CHAPMAN, (123) PA 1006
Associate Professor of Philosophy, Cooksey Lane
A.B., Williams, 1901; A.M., Harvard, 1903, Ph.D., 1905. Student, University of Berlin, 1903–04; Assistant in Philosophy, Harvard University, 1904–06; Instructor in Philosophy, Columbia University, 1906–14. At Stanford since 1914.

BROWN, JOSEPH GRANT, (123) PA 461M
Assistant Professor of Physics, 1013 Ramona-p
A.B., Stanford, 1901, A.M., 1903. Graduate, Illinois State Normal University, 1894, Instructor in Physics and Chemistry, 1894–98. At Stanford since 1900.

BUCKINGHAM, ELISABETH LEE, (234) PA 1203
Assistant Professor of English, 4 Lasuen
A.B., Stanford, 1910, A.M., 1914. Student, Columbia College of Expression, Summer, 1913; Teacher of Public Speaking, State Normal School, San Jose, 1914; Student, Columbia University, 1917–18, and Summer Sessions, 1916, 1919. At Stanford since 1911.

BUNTING, HELEN MASTERS, (123) PA 1161W
Assistant Professor of Physical Education,
and Director of Roble Gymnasium, San Juan Hill
A.B., Stanford, 1924. Graduate, Department of Hygiene, Wellesley College, 1912; Instructor in Physical Education, Centenary Collegiate Institute, Hackettstown (N.J.), 1912–14; Director, Physical Education for Women, University of Colorado, 1914–19. At Stanford since 1919.

†BURDICK, WILLIAM LEROY, (124) PA 1496J
Instructor in Chemistry, Lincoln, Mayfield
A.B., Kansas, 1909; A.M., Yale, 1912; Ph.D., Stanford, 1923. Assistant in Chemistry, Yale University, 1912; Instructor in Chemistry, Oahu College, Honolulu, 1913; Principal of High School, Essex (Conn.), 1913–20; University Fellow in Chemistry, Stanford University, 1921–23. At Stanford since 1923.

†BURLINGAME, LEONAS LANCELOT, (123) PA 1144
Associate Professor of Botany, 24 Alvarado
Ph.B., Ohio Northern University, 1901; A.B., Chicago, 1906, Ph.D., 1908. Instructor in Biology, Ohio Northern University, 1901–04; Fellow in Botany, University of Chicago, 1906, Assistant, 1906–08. At Stanford since 1908.

†BURROWS, JOHN ROBERT, (123) Fillmore 2833
Assistant Clinical Professor of Surgery,
(Anesthesia), 2305 Sacramento, SF-sf
M.D., Cooper Medical College, 1906. Assistant in Ophthalmology, Cooper Medical College, 1909; Assistant Anesthetist, Lane Hospital, since 1910.

†BUTLER, EDMUND, (123) Fillmore 1985
Assistant Clinical Professor of Surgery, 2469 Jackson, SF-sf
M.D., Cooper Medical College, 1911. Resident Surgeon and Senior Interne in Surgery, Lane Hospital, 1912–14; Surgeon, Municipal Emergency Hospital, since 1914; Associate Member of Staff of St. Luke's Hospital since 1914.

CALVIN, RUTH ANDERSON (Mrs.), (123) PA 1915W
Instructor in Physical Education, 519 Addison-p
A.B., Reed, 1919. Graduate Student, Department of Hygiene, Wellesley College, 1919–20, 1923–24. Director of Physical Education for Girls, Stadium High School, Tacoma (Wn.), 1920–23. At Stanford since 1924.

CAMPBELL, DOUGLAS HOUGHTON, (123) PA 1036
Professor of Botany, County Road
Ph.M., Michigan, 1882, Ph.D., 1886. Teacher of Biology, Detroit High School, 1882–86; Student at Bonn, Tübingen, and Berlin, 1886–88; Professor of Botany, Indiana University, 1888–91. At Stanford since 1891.

†CANNING, JOHN BENNET, (123) MP 1950J5
Assistant Professor of Economics, Menlo Heights
Ph.B., Chicago, 1913. Graduate Scholar in Political Economy, University of Chicago, 1913–14, Assistant, 1914–15, Instructor, 1915–17. At Stanford since 1919.

†CARROLL, JOSEPH SNYDER, (123)
Instructor in Electrical Engineering, 601 Channing-p
B.S., Utah, 1920; Engineer, Stanford, 1924. At Stanford since 1924.

†CATHCART, ARTHUR MARTIN, (1234) PA 197
Professor of Law, 1215 Emerson
A.B., Stanford, 1896. Student, Harvard University, 1896–97; Attorney at Law, Colorado Springs (Colo.), 1903–04; Lecturer in Law, University of California, Summer Session, 1908; Professor of Law, University of Chicago, Summer Quarter, 1911. At Stanford since 1904.

†Catton, Joseph Henry, (123) Fillmore 94
Clinical Instructor in Medicine (Neurology), 2172 Pacific, SF-sf
B.S., California, 1911; M.D., California, 1913. Voluntary Assistant in Medicine, University of California, 1914–16, Assistant in Medicine, 1916; Chief of Medical Clinic, San Francisco Polyclinic, 1917–19; Assistant Visiting Physician, San Francisco Hospital, 1914–17, Visiting Physician, 1917; Major, M.C., U.S.A. At Stanford since 1919.

†Chamberlain, William Edward, (1234) Sunset 130
Associate Professor of Medicine (Radiology), and
Director of the X-ray Laboratory, 11 San Leandro Way, SF-sf
B.S., California, 1913, M.D., 1916. Assistant in Roentgenology, University of California Medical School, 1916–17; Visiting Roentgenologist to the French Hospital, San Francisco, 1917; Roentgenologist of U. S. Base Hospital No. 2, 1917–18; Instructor in Roentgenology, University of California Medical School, 1919–20; Roentgenologist in Charge, Children's Hahnemann, and St. Mary's Hospitals, San Francisco, 1919–20. At Stanford since 1920.

†Cheney, William Fitch, (1234) Bayview 7720
Clinical Professor of Medicine, 33 Spruce, SF-sf
B.L., California, 1885; M.D., Cooper Medical College, 1889. Professor of Principles and Practice of Medicine, Cooper Medical College, 1898–1912. At Stanford since 1909.

†von Christierson, Sigurd, (123) Graystone 3073
Clinical Instructor in Surgery (Otology,
Rhinology, Laryngology), 1267 Chestnut, SF-sf
A.B., Stanford, 1917, M.D., 1922. At Stanford since 1923.

†Clark, Arthur Bridgman, (234) PA 1023
Professor of Education (Graphic Art), 4 Cabrillo
B.Ar., Syracuse, 1888, M.Ar., 1891. Director of Trade Schools and Instructor in Drawing, New York State Reformatory, Elmira (N.Y.), 1888–89; Instructor in Architecture, Syracuse University, 1889–92; Student in Painting, New York School of Art and Académie Carmen, Paris, 1898–99; Instructor in Pottery, California School of Arts and Crafts, Berkeley, Summer Session, 1913, 1914; Director, San Francisco Art Association, 1917; Lecturer, California School of Fine Arts, 1919–20. At Stanford since 1892.

Clark, George Thomas, (1234) PA 1973
Director of University Libraries, 1729 Emerson
B.S., California, 1886. Assistant Librarian, University of California, 1886–87; Deputy State Librarian, California State Library, 1887–90, Classifier, 1890–94; Librarian, San Francisco Public Library, 1894–1907. At Stanford since 1907.

†Clark, William Redwood Price, (123) West 1827
Clinical Professor of Medicine (Tuberculosis), 2710 Filbert, SF-sf
M.D., Cooper Medical College, 1899. Assistant Visiting Physician, City and County Hospital, San Francisco, 1901–04; Instructor in Medicine, Cooper Medical College, 1905–11; Visiting Physician, Clinic of the San Francisco Association for the Study and Prevention of Tuberculosis, 1909–12; Visiting Physician, City and County Tuberculosis Hospital, San Francisco, 1911–12. At Stanford since 1911.

Clifford, Connell, (1)
Instructor in Economics, 1001 Ramona -Box 222,p
A.B., Stanford, 1920. At Stanford since 1922.

†Coester, Alfred, (123) PA 340J
Assistant Professor of Romanic Languages, 435 Homer
A.B., Harvard, 1896, A.M., 1906, Ph.D., 1906. Student, University of Seville, Spain, 1901–02, University of Berlin, 1894–95, Sorbonne, 1895; Secretary-Treasurer, American Association of Teachers of Spanish, since 1917; Associate editor *Hispania;* Caballero de la real orden de Isabel la Católica; Member, Hispanic Society of America; Corresponding member, Real Academia Hispano-Americana de Ciencias y Artes, Cadiz; Corresponding member, Junta de Historia y Numismática Americana, Buenos Aires. At Stanford, Summer Quarter, 1919, and since 1920.

†Cooke, William Henry, (1234) PA 798W
Instructor in Citizenship, University Park
A.B., Pomona, 1920, A.M., 1921. Instructor in History, Pomona College, 1923–24; Instructor in Citizenship, Stanford, 1924–25, Lecturer in History, Summer 1925.

†Cooper, William Alpha, (123) PA 593
Professor of German, 35 Salvatierra
A.B., Marietta, 1892, A.M., 1897, Litt.D., 1917. Student, Universities of Bonn, Leipzig, and Paris, 1892–94; Instructor in German and French, Marietta College, 1895–99, Professor, 1899–1901. At Stanford since 1901.

†Coover, John Edgar, (123) PA 933
Fellow in Psychic Research, and Associate Professor of Psychology, 11 Salvatierra
A.B., Stanford, 1904, A.M., 1905, Ph.D., 1912. Principal, Como (Colo.) Schools, 1898–99; Principal, Sonora (Cal.) High School, 1905–07, Dixon High School, 1907–10; Assistant in Psychology, Stanford University, 1910–12; Captain, Sanitary Corps, U. S. A., Psychological Division, Medical Research Laboratory (Military Aeronautics), 1918–19. At Stanford since 1910.

[Cosgrave, Millicent Mary, West 1951
Assistant Clinical Professor of Medicine (Pediatrics), 2619 Octavia, SF-sf]
M.D., Cooper Medical College, 1902. Assistant, Children's Clinic, Cooper Medical College, 1904–08; Assistant, Medical Clinic, San Francisco Polyclinic, 1904–13; Chief, Gynecological Clinic, San Francisco Fruit and Flower Mission, 1906–13.

†Cottrell, Edwin Angell, (123) PA 109
Professor of Political Science, 257 Kingsley
A.B., Swarthmore, 1907; A.M., Harvard, 1913. Instructor in Political Science, Pennsylvania State College, 1907–11, Assistant Registrar, 1909–11; Assistant in Government, Harvard University, 1911–15; Swarthmore Fellow, 1912–13; Instructor in Government, Wellesley College, 1912–17; Lecturer in Constitutional Government, Brown University, 1915–16; Secretary of the Boston Budget Commission, 1915; Assistant Secretary, Boston Chamber of Commerce, 1916–17; Executive Secretary, Massachusetts Health Insurance Commission, 1917; Professor of Political Science, and Director of the Bureau of Governmental Research, Ohio State University, 1917–19; Special Investigator, United States Bureau of Efficiency, 1918; Visiting Lecturer in Government, Harvard University, Spring, 1922. At Stanford since 1919.

†Cowan, John Francis, (1234) Fillmore 5645
Professor of Surgery, 37 Presidio, SF-sf
A.B., Stanford, 1902; M.D., Cornell University Medical College, 1910. Assistant and Acting Instructor in Physiology, Stanford University, 1903–06; Instructor in Physiology, Cornell University Medical College, 1906–09; Interne, New York Hospital, 1910–12, Resident Surgeon, 1912–13. At Stanford since 1913.

†Cowdery, Karl Montague, (4)
Acting Instructor in Education (Summer Quarter), 436 Waverley-p
A.B., Oberlin, 1915; A.M., Stanford, 1922. Student, Eugenics Record Office, Summer, 1915; Research Worker, Whittier State School, 1915–17; Psychological Examiner, U. S. Army, 1918; Assistant Superintendent, Whittier State School, 1919–22, Director of Education, 1922–23; Teaching Assistant in Psychology, Stanford, 1923–24.

†Cox, Albert Brooks, (4)
Acting Professor of Law (Summer Quarter), [New Orleans, La.]
A.B., Stanford, 1909, J.D., 1921. In practice of Electrical Engineering, 1909–19; in practice of the Law, with Mastick and Partridge, San Francisco, 1921–22; Associate Professor of Law, Tulane University, 1922–23, Professor of Law, since 1923.

CRAIG, FLORENCE M., (123) RC 217R
Reviser, Catalogue Department, Library, Redwood City
A.B., University of Minnesota, 1914; B.L.S., University of Illinois, 1917. At Stanford since 1918.

CRANE, ROBERT TREAT, (4) PA 1057
Acting Professor of Political Science (Summer Quarter), 7 Lasuen
A.B., Johns Hopkins, 1902, Ph.D., 1907; LL.B., University of Maryland, 1907. U. S. Consular Service, 1908–12; Assistant Professor of Political Science, University of Michigan, 1913–16, Associate Professor, 1916–18, Professor since 1918; Lecturer in Summer Sessions, Johns Hopkins University, 1919, University of Chicago, 1922, University of Colorado, 1923, in Winter Quarter, University of Chicago, 1923.

†CROOK, WELTON JOSEPH, (123) PA 1035
Associate Professor of Metallurgy, 9 San Juan
A.B., Stanford, 1911, Engineer, 1919. Chemist and Assayer, Department of Mines and Water Supply, Victorian Government, Australia, 1907–08; Assistant, Department of Metallurgy, Stanford University, 1910; Chief Chemist, Pacific Coast Steel Company, South San Francisco, 1911–13; Professor of Metallurgy, State School of Mines, South Dakota, 1913–17; Metallurgical Chemist, U. S. Bureau of Mines, P. P. I. E., 1915; Metallurgist and Chief Chemist, Pacific Coast Steel Company, 1917–19, Metallurgist and Chief Inspector, 1919–20, Chief Metallurgist, 1920–21; Coöperating Analyst, U. S. Bureau of Standards, since 1920. At Stanford since 1921.

†CROSS, CHARLES NORMAN, (123) PA 526W
Associate Professor of Mechanical Engineering, 26 Alvarado
M.E., Corneli, 1906. Assistant Engineer, Long Island State Hospital, Brooklyn (N.Y.), 1905; Dynamo and Switchboard Attendant with the New York Edison Co., New York City, 1905–06; Electrician with the Lackawanna Steel Co., Buffalo (N.Y.), 1906; with Turbine Research Department of General Electric Company, Lynn (Mass.), 1914–15. At Stanford since 1906.

†CROWE, THOMAS B., (3)
Lecturer in Metallurgy, 233 Tennyson-p

†CUBBERLEY, ELLWOOD PATTERSON, (124) PA 1019
Professor of Education, and Dean of School of Education, 12 Cabrillo
A.B., Indiana, 1891; A.M., Columbia, 1902, Ph.D., 1905; LL.D., Iowa, 1923. Instructor in Science, Ridgeville College (Ind.), 1891; Professor of Physical Science, Vincennes University (Ind.), 1891–93, President, 1893–96; Superintendent of City Schools, San Diego (Cal.), 1896–98; Honorary Fellow, Columbia University, 1901–02, 1904–05; Professor of Education, University of California, Summer Sessions, 1901, 1906, University of Chicago, Summer Quarter, 1910, Harvard University, second half-year, 1910–11; Visiting Professor, Columbia University, Summer Sessions, 1907, 1914, 1916, second half-year, 1915–16. At Stanford since 1898.

†CULVER, GEORGE BLISS, (1234) PA 1365
Dean of Men, 33 Salvatierra
A.B., Stanford, 1897; LL.B., George Washington University, 1902. With Smithsonian Institution, Washington (D. C.), 1898–99; Head of Biological Department, Los Angeles High School, 1907–20. At Stanford since 1920.

CUMMINGS, N. FLORENCE, (23)
Assistant Professor of Social Service and Public Health Nursing, 1277 Lombard, SF-sf
St. Luke's Hospital Training School for Nurses (New Bedford, Mass.); Simmons' College Public Health Nursing Course; Boston School of Social Work. At Stanford since 1923.

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†Cutter, Lawrence Edminster, (123) PA 459M
Associate Professor of Mechanical Engineering, 627 Webster-p
A.B., Stanford, 1906. Machinist, Apprentice, and Journeyman, Union Iron Works, San Francisco, 1895–99, 1899–1902, 1903, 1904, Draftsman, 1905, 1906. At Stanford since 1906.

†Cutting, James Arthur, (123) San Jose 1728
Assistant Clinical Professor of Medicine (Psychiatry), Agnew-a
A.B., Stanford, 1906; M.D., Cooper Medical College, 1911. Interne, Lane Hospital, 1911–12, Senior Medical Interne and House Officer, 1912–13; Assistant Physician, Agnew State Hospital, since 1913.

†Danforth, Charles Haskell, (123) PA 1596W
Professor of Anatomy, 951 Bryant
A.B., Tufts, 1908, A.M., 1910; Ph.D., Washington University, 1912. Fellow in Biology, Tufts College, 1908, Instructor, 1910–11; Teaching Fellow in Anatomy, Harvard Medical School, 1910–11; Instructor in Anatomy, Washington University School of Medicine, 1908–14, Associate, 1914–16, Associate Professor, 1916–22. At Stanford since 1922.

†Davidson, Percy Erwin, (234) Menlo Park 1243W
Associate Professor of Education, Menlo Heights
A.B., Stanford, 1898; A.M., Harvard, 1905; Ph.D., Columbia, 1914. Teacher, Grammar and High Schools, San Diego (Cal.), 1898–1900; Supervisor of History and English Teaching, San Francisco State Normal School, 1900–03; Assistant in Education, San Diego State Normal, 1903–04; Graduate Student, Teachers' College, Columbia University, 1905–07; Instructor in Logic and History of Education, New York Training School for Teachers, 1906–07. At Stanford since 1907.

†Davis, Charles Wesley, (1234) PA 111W
Director of Intramural Sports, 544 Byron-p
B.P.E., Y. M. C. A. College, Springfield (Mass.), 1918. U. S. Navy, 1918; Physical Director, Madison (N. J.), 1919–21, Cleveland Heights High School, Cleveland, O., 1921–22; sometime Athletic Director, Boys' Camps, Maine, Playground Instructor, Brookline, Mass., Commissioner, Boy Scouts, Madison, N. J., Swimming Instructor, Venice, Cal. At Stanford since 1922.

Davis, Gordon Arthur, (124) PA 964W
Director of Dramatics and Instructor in English 19 Salvatierra
A.B., Stanford, 1920. At Stanford since 1920.

†Davis, Harold McDonald, (1234) PA 798W
Assistant Director of Minor Sports, Menlo Heights

†Davis, Joseph Stancliffe, (1234) PA 1161J
Director and Executive Secretary,
Food Research Institute, 23 Mirada
A.B., Harvard, 1908, Ph.D., 1913. Instructor in Economics and Sociology, Bowdoin College, 1912–13; Instructor in Economics, Harvard University, 1913–17; Tutor in the Division of History, Government and Economics, Harvard University, 1914–20; Assistant Professor of Economics, Harvard University, 1917–21; Assistant Statistician, American Shipping Mission and Statistician of the Allied Maritime Transport Council, London, 1918–19. At Stanford since 1921.

Davis, Paul Herbert, (1234) PA 1680
Graduate Manager for the
Board of Athletic Control, 12 Stanford Union
A.B., Stanford, 1922. At Stanford since 1923.

†Davis, William Hawley, (1234) PA 1161J
Editor, Food Research Institute, 23 Mirada
A.B., Harvard, 1905; A.M., Columbia, 1908. Instructor in Public Speaking, Harvard College, Summer Sessions, 1908, 1909, and first half-year 1908–09; Professor of English and Public Speaking, Potsdam (N.Y.) State Normal School,

1909; Assistant Professor of Public Speaking, University of Kansas, 1909–10; Instructor in Public Speaking, Columbia University, Summer Sessions, 1910–12; Professor of English and Public Speaking, Bowdoin College, since 1910.

DECKER, EDWARD HARRIS, (4)
Acting Professor of Law (Summer Quarter), [Eugene, Ore.]
A.B., Michigan, 1897, LL.B., 1904. In practice, Battle Creek (Mich.), 1904–07, City Attorney, 1907–09; Instructor in Law, University of Illinois, 1909–11; Assistant Counsel and later Acting Counsel, Bureau of War Risk Insurance, 1918–20; Professor of Law, University of Oregon, since 1920.

†DEEDS, FLOYD, (123) Fillmore 3064
Instructor in Pharmacology, 2211 California, SF-sf
A.B., Western Reserve, 1916, A.M., 1920; Ph.D., Stanford, 1924. Demonstrator in Biochemistry, Western Reserve University, 1916–17, 1919–20; Assistant, Pathological Laboratory, Base Hospital No. 4, Rouen, France, 1917–19; Second Lieutenant, Sanitary Corps, U. S. A., 1918; Teaching Assistant in Biochemistry, Harvard Medical School, 1920–21. At Stanford since 1921.

†DICKSON, ERNEST CHARLES, (1234) Sunset 4298
Professor of Medicine, 155 San Fernando Way, SF-sf
B.A., Toronto, 1904, M.B., 1906, M.D., 1917. Assistant Demonstrator in Physiology, University of Toronto, 1904–05, George Brown Research Scholar, 1906–07; Assistant Resident Physician, Johns Hopkins Hospital, 1907–08; Instructor in Pathology and Bacteriology, Cooper Medical College, 1908–10; Fellow in Rockefeller Institute for Medical Research, 1910–13. At Stanford since 1910.

†DIETRICH, WALDEMAR FENN, (123) PA 2213
Associate Professor of Mining, 34 Lasuen
A.B., Stanford, 1913, Engineer, 1914. Acting Instructor in Mining, Stanford University, 1913–14; Engineer with Copper Queen Consolidated Mining Company, Bisbee (Ariz.), 1914–15; Engineer and later Assayer with Consolidated Arizona Smelting Company, Humboldt (Ariz.), 1916. At Stanford 1913–14, and since 1916.

†DILLON, JAMES ROOT, (1234) Fillmore 3071
Assistant Clinical Professor of Surgery (Genito-Urinary), 2664 Greenwich, SF-sf
A.B., Stanford, 1908; M.D., Cooper Medical College, 1912. At Stanford since 1913.

†DOANE, RENNIE WILBUR, (123) PA 1766J
Associate Professor of Entomology, 527 Homer
A.B., Stanford, 1896. Assistant in Zoology and Botany, Washington State College, 1896–99, Assistant Professor of Zoology and Entomology, 1899–1901; Superintendent, Fisheries Experiment Station, Keyport (Wash.), 1901–03. At Stanford since 1905.

†DODGE, JOHN FRANKLIN, (23) Fillmore 9339
Lecturer on Oil Land Valuation, 3201 Washington, SF-sf

†DOUGLASS, HARL ROY, (4)
Acting Associate Professor of Education (Summer Quarter), Sand Hill Road
B.S., Missouri, 1913, A.M., 1918. Supervisor, University of Missouri High School, 1913–14; Superintendent of Schools, Missouri and Oregon, 1914–19; Professor of Education, University of Oregon, since 1919.

DOWLING, NOEL THOMAS, (4) PA 1144
Acting Professor of Law (Summer Quarter), 24 Alvarado
A.B., Vanderbilt, 1909, A.M., Columbia, 1911, LL.B., 1912. Associate Counsel, Bureau of War Risk Insurance, 1917–19; Assistant in Legislative Drafting Service, U. S. Senate; Major, Judge Advocate, Office of the Judge Advocate General; Professor of Law, University of Minnesota, 1919–22; Associate Professor of Law, Columbia University, 1922–24, Professor of Law, since 1924.

†DREW, ELMER REGINALD, (124) PA 1181W
Associate Professor of Physics, 1321 Waverley-p
B.S., California, 1888; Ph.D., Cornell, 1903. Student, University of Chicago, 1897–98, University of Berlin, 1903–05; Assistant in Physics, University of California, 1889–92, Instructor, 1892–1902. At Stanford since 1905.

†ECKART, WILLIAM RANKINE, (123) PA 227
Professor of Mechanical Engineering, 1445 Bryant-p
M.E., Cornell, 1895. Mechanical Engineer, Siemens Halske Electric Co., Chicago, 1895–96; Construction Engineer, Allison Ranch Mine, Grass Valley (Cal.), 1896–98; Testing Work for Fraser & Chalmers, in Hawaii and Mexico, 1898–99; with W. R. Eckart, Consulting Engineer, Hydraulic Power Plants and Mining Work, 1899–1903, summers of 1904–14; Consulting Engineer, Geary St. P. & O. R. R., San Francisco, 1902–06, Columbia Steel Company since 1915, C. F. Braun & Co., since 1918. At Stanford since 1903.

EISKAMP, EHLER HENRY, (123) West 6193
Clinical Instructor in Surgery, Lane Hospital, SF-sf
A.B., Stanford, 1918, M.D., 1922. House Officer, San Francisco Hospital, 1922–23; Resident in Surgery, Lane Hospital, 1923–24. At Stanford since 1923.

†ELLIOTT, ORRIN LESLIE, (1234) PA 1045
Registrar, 5 Cabrillo
Ph.B., Cornell, 1885, Ph.D., 1890. Fellow in History and Political Science, Cornell University, 1885–86, Instructor in English, 1886–91, Assistant Registrar and President's Secretary, 1890–91. At Stanford since 1891.

†ELMORE, JEFFERSON, (1234) PA 1604W
Associate Professor of Classical Literature, 11 Alvarado
A.B., Stanford, 1895, A.M., 1895, Ph.D., 1901. Principal of Merced County High School, 1895–97; Student, Universities of Bonn and Berlin, 1901–02. At Stanford since 1898.

ELOESSER, LEO, (12) Graystone 555
Clinical Professor of Surgery, 1132 Filbert, SF-sf
B.S., University of California, 1900; M.D., Heidelberg, 1907. Volunteer Assistant, Surgical Clinic, Heidelberg, 1906; Assistant, Cancer Institute, Heidelberg, 1906–07; Volunteer Assistant, Royal Surgical Clinic, Kiel, 1908–09; Volunteer Asistant, August Hospital, Berlin, 1909; Assistant in Surgery, University of California, 1910–12; Surgeon to Reserve Hospital Ettlingen and Reserve Hospital III, IV, V, Karlsruhe, 1915–16; Major, M. C., U. S. A., 1918; Chief of Orthopedic Service, Letterman General Hospital, 1918–19. At Stanford since 1913.

†ELY, LEONARD WHEELER, (1234) PA 264
Professor of Surgery (Orthopedics), 1010 Bryant-p
A.B., Columbia, 1889; M.D., College of Physicians and Surgeons, Columbia University, 1895. At Stanford since 1913.

†EMERSON, JAMES GORDON, (1234) PA 526M
Associate Professor of English (Public Speaking), 28 Alvarado
B.S., Iowa State College, 1912; J.D., Stanford, 1915. Student, Harvard Law School, 1912–13, University of California Law School, Summer Session, 1914; Instructor in Public Speaking, Kansas State Agricultural College, 1915–16, Assistant Professor, 1916–17, Professor and Department Head, 1917–21; Military service in America and France (Signal Corps), 1918–19.

†EMGE, LUDWIG AUGUSTUS, (123) Sunset 4849
Associate Clinical Professor of Obstetrics and
Gynecology, 109 Edgewood, SF-sf
B.S., Chicago, 1912; M.D., Rush Medical College, 1914. Assistant in Anatomy, University of Chicago, 1912–13; Special Worker in Pathology, Rush Medical College, 1913–14; Interne, Memorial Institute for Infectious Diseases, and Presbyterian Hospital, 1914–15; Resident and Assistant in Gynecology and Obstetrics, University of California Hospital, 1915–17. At Stanford since 1917.

ENGLE, EARL THERON, (3)
Acting Instructor in Anatomy (Hopkins Marine Station), 245 Alden, Pacific Grove-pg
A.B., Nebraska, 1920; A.M., Colorado, 1924. Instructor in Zoology, Nebraska Wesleyan University, 1921–22, University of Colorado, 1922–24; University Fellow, Stanford University, 1924–25.

†ERWIN, ERNEST S., (1234) PA 1042J
Auditor, 23 Alvarado

†ESPINOSA, AURELIO MACEDONIO, (123) PA 676J
Professor of Romanic Languages, 16 Salvatierra
A.B., Colorado, 1902, A.M., 1904; Ph.D., Chicago, 1909. Assistant in Romance Languages, University of Colorado, 1901–02, Instructor, Summer Terms, 1904, 1905; Professor of Romance Languages, University of New Mexico, 1902–10; Fellow in Romance Languages and Instructor in Spanish, University of Chicago, 1908–09; Lecturer in Spanish Language and Literature, Summer Sessions, University of Chicago, 1914, University of California, 1912, 1915, 1922; Associate Editor, *Journal of American Folklore*, since 1914; Editor, *Hispania*, since 1917; member of Advisory Editorial Board of *Inter-America*, since 1917; corresponding member of the Royal Spanish Academy, 1921; Comendador con Placa de la Orden de Isabel la Católica, 1922. At Stanford since 1910.

EVANS, LUTHER HARRIS, (123)
Instructor in Citizenship, 334 Stanford Union
A.B., Texas, 1923, A.M., 1924.

†FABER, HAROLD KNIEST, (1234) Fillmore 3848
Professor of Medicine (Pediatrics), 2080 Vallejo, SF-sf
A.B., Harvard, 1906; M.D., Michigan, 1911. Medical Interne, New York Hospital, 1911–13; Resident Pathologist, Babies' Hospital, New York, 1913–14; Fellow, Rockefeller Institute, New York, 1914–15. At Stanford since 1915.

†FAIRCLOUGH, HENRY RUSHTON, (124) PA 1911
Professor of Classical Literature, 6 Cabrillo
A.B., Toronto, 1883, A.M., 1886, Litt.D., 1922; Ph.D., Johns Hopkins, 1896. Fellow in Classics, University College, Toronto, 1883–84; Classical and English Masters, Brockville High School, 1884–86; Graduate Scholar, Johns Hopkins University, 1886–87, Fellow, 1887; Lecturer in Greek and Ancient History, University College, Toronto, 1887–93; Professor of Latin, University of Wisconsin, Summer Session, 1906, Columbia University, Summer Session, 1908, University of Chicago, Summer Quarter, 1910; Professor of Latin, American School of Classical Studies, Rome, 1910–11; Order of St. Sava, Serbia, 1920; Officier de l'Ordre de la Couronne, Belgium, 1920. At Stanford since 1893.

FARMER, EDWARD MCNEIL, (134) PA 1271
Acting Instructor in Education (Graphic Art), 559 Cowper
A.B., Stanford, 1923.

FARNSWORTH, PAUL, (4) PA 1680
Instructor in Psychology (Summer Quarter), 3 Stanford Union
Instructor in Psychology, Ohio State University, since 1923.

†FARRINGTON, GUY STEVENS, (123) Franklin 7768
Lecturer on Speech Defects, 809 Francisco, SF-sf
Assistant, Defective Speech Clinic in Pediatrics, University of California, 1915–16; Assistant, Defective Speech Clinic, San Francisco Public Schools, 1916; Assistant, Defective Speech Clinic, Oakland Public Schools, 1917; Chief of Clinic, Defective Speech, College of Physicians and Surgeons, 1918. At Stanford since 1918.

FAST, LISETTE EMERY, (1234) PA 1746W
Secretary, Citizenship, 4 Lasuen
A.B., Stanford, 1919, M.B.A., University of Washington, 1921. Research Assistant, Food Research Institute, Stanford University, 1922–23. At Stanford since 1922.

FEARING, FLORA MAY (Mrs.), (1234) PA 2359W
Instructor in Citizenship, 177 Tasso-p
A.B., Stanford, 1917, A.M., 1918. Instructor in Political Science, Vassar College, 1918–19; Supervisor, Neuro-Psychiatric Cases, American Red Cross, Louisville (Ky.), 1920; Director, Psychiatric Social Investigation, Cincinnati Mental Hygiene Survey, National Committee for Mental Hygiene, 1921; Lecturer in Economics and Sociology, Mills College, 1922–23. At Stanford 1921–22, and since 1923.

†FEARING, FRANKLIN SMITH, (1234) PA 2359W
Instructor in Psychology, 177 Tasso-p
A.B., Stanford, 1923, A.M., 1924. Assistant Director of Education, Washington State Reformatory, 1915–16; Member of Staff (in charge of Psychological Examinations), Psychiatric Division Medical Department, U.S.N., Hampton Roads Naval Base, 1918–19; Director Psychological Clinic serving Social Agencies, Louisville (Ky.), 1919–21; Psychologist, Field Staff, National Committee for Mental Hygiene, Mental Hygiene Survey, Cincinnati (O.), 1921–22. At Stanford since 1923.

†FERRIS, GORDON FLOYD, (123) PA 1632M
Assistant Professor of Entomology, 667 Melville
A.B., Stanford, 1916, A.M., 1918. At Stanford since 1916.

†FINDLAY, ALEXANDER, (234)
Acting Professor of Chemistry, 559 Kingsley-p
D.Sc., Aberdeen; Ph.D., Leipzig. Lecturer in Chemistry, University of Birmingham, 1902–11; Member of Council, Institute of Chemistry, 1915–18, Chemical Society, 1917–20; Thompson Lecturer, United Free Church College, Aberdeen, 1915–16; Professor of Chemistry, University of Wales, Aberystwith, 1911–19; Professor of Chemistry, University of Aberdeen, since 1919.

†FISH, CARL RUSSELL, (4) PA 1505J
Acting Professor of History (Summer Quarter), 17 Alvarado
A.B., Brown, 1897; A.M., Harvard, 1898, Ph.D., 1900. Instructor, Assistant Professor, Associate Professor, and Professor of History, University of Wisconsin, since 1900; Research Associate, Carnegie Institution, 1908–09.

†FISH, JOHN CHARLES LOUNSBURY, (123) PA 1266
Professor of Railroad Engineering, 308 Lincoln-p
C.E., Cornell, 1892. Instructor in Civil Engineering, Cornell University, 1892–93; Division Engineer, Lake Shore & Michigan Southern Railway, 1906–08. At Stanford since 1893.

†FISHER, ARTHUR LAWRENCE, (123) Fillmore 3620
Assistant Clinical Professor of Surgery (Orthopedics), 3333 Jackson, SF-sf
B.S., California, 1896; M.D., Johns Hopkins, 1900. Resident House Officer, Johns Hopkins Hospital, 1900–01; Fellow, Rockefeller Institute for Medical Research, 1901–02; Assistant Visiting Surgeon, Mt. Zion Hospital, San Francisco, 1902–07; Assistant in Surgery, Lane Hospital, 1907–12; Assistant in Orthopedics, Stanford Medical School, 1912–16; Instructor in Orthopedic Surgery, University of California, 1916–19. At Stanford 1912–16, and since 1920.

†FISHER, HAROLD HENRY, (1234) PA 2255J
Lecturer in History, 473 Embarcadero
A.B., Vermont, 1911. Master, The Black Hall School, 1912, Mercersburg Academy, 1912–14, The Hill School, 1914–17; Student, Summer Sessions, Columbia University, 1914, Dartmouth College, 1916; First Lieutenant, Field Artillery, 1917, Captain (A.E.F.), 1918–19; on staff of *New Republic* and *Washington* (D.C.) *Herald*, 1919–20; with American Relief Administration, since 1920, Chief of Department of History and Publications, 1921–24, Curator of Archives, 1924. At Stanford since 1924.

†FISHER, WALTER KENRICK, (1234) Monterey 407W
Associate Professor of Zoology, 844 Laurel, Pacific Grove-pg
A.B., Stanford, 1901, A.M., 1903, Ph.D., 1906. Assistant, U. S. Biological

Survey, 1897–1901, 1903; Assistant, U. S. Fish Commission, 1902, 1904; Curator, Department of Invertebrate Zoology, California Academy of Sciences. At Stanford since 1902.

†Fletcher, Harold Augustus, (123) Bayview 2704
Clinical Instructor in Surgery (Otology, Rhinology, Laryngology), 12 West Clay Park, SF-sf
B.S., California, 1912; M.D., Stanford, 1916. Interne, Lane Hospital, 1916–17; M.R.C., U.S.N., 1918–19. At Stanford since 1919.

Fordyce, Elizabeth L., (1234) PA 1505W
Assistant Secretary to the President, 15½ Alvarado
B.S., Mills, 1916. At Stanford since 1920.

†Foster, Benjamin Oliver, (123) PA 1021W
Associate Professor of Classical Literature, 22 Lasuen
A.B., Stanford, 1895; A.M., Harvard, 1897, Ph.D., 1899. Parker Fellow of Harvard University, studying in the American School of Classical Studies in Rome, 1899–1900; Acting Professor of Latin and Greek, State Normal College of Michigan, 1900–01; Instructor, University of California, Summer Session, 1908. At Stanford since 1901.

†Franklin, Edward Curtis, (123) PA 216
Professor of Organic Chemistry, and Dean of Graduate Study, 16 Mirada
B.S., Kansas, 1888, M.S., 1890; Ph.D., Johns Hopkins, 1894; LL.D., Northwestern, 1925; Chemist to Palo Alto Plantation and Sugar Factory, Donaldsville (La.), 1888; Chemist to the Bella Vista Mining and Milling Co., Los Quemados, Costa Rica, 1897; Instructor in Chemistry, University of Kansas, 1888–90; Student, University of Berlin, 1890–91; Assistant in Chemistry, University of Kansas, 1891–93, Associate Professor, 1894–99, Professor of Physical Chemistry, 1899–1903; Member of the U. S. Assay Commission, 1907; Chief of the Division of Chemistry, U. S. Public Health Service, Washington (D.C.), 1911–13; Member Advisory Board, Bureau of Mines, Washington (D.C.), 1917–18; Physical Chemist, Bureau of Standards, 1918; Consulting Chemist, Ordnance Bureau, 1918; President, American Chemical Society, 1924; Nichols Medal in Chemistry, 1925. At Stanford since 1903.

†Fregeau, Aimé N., (12) Randolph 6518
Clinical Instructor in Medicine, 415 Junipero Serra Blvd., SF-sf
M.D., Tufts, 1915. House Officer, St. Elizabeth's Hospital, Boston, 1915–17; Abroad, U. S. Army, 1917–20; Resident Physician, French Hospital, S. F., 1920, Visiting Physician, 1921–22, at present Physician in Chief, French Hospital.

Friend, Will A., (1234) PA 1680
Superintendent of the University Press, 10 Stanford Union

Gale, Helen Avery, (1234) PA 2052
Chief of Serial Department, Library, 940 Waverley-p
A.B., Stanford, 1909. At Stanford since 1913.

†Gardner, David Charles, (123) PA 1068
Chaplain, and Lecturer on Biblical History and Literature, 1a Alvarado
Graduate, Church Divinity School of the Pacific, 1897, D.D., 1920. Curate St. James Mission, San Francisco, 1898; Rector of All Saints Church, Palo Alto, 1898–1902. At Stanford since 1902.

†Geary, William Ducachet, (1234)
Professor of Military Science and Tactics (Field Artillery), 17 Alvarado
Graduate, United States Military Academy, 1907. Major, Field Artillery, U. S. Army. At Stanford since 1923.

†Germann, Albert Frederick Ottomar, (1) PA 993J
Acting Assistant Professor of Chemistry, 1035 Parkinson-p
A.B., Indiana, 1909, A.M., 1910; A.M., Wisconsin, 1910; Sc.D., Université de Genève, Suisse, 1912. Teaching Fellow in Chemistry, Indiana University,

1909; Assistant in Chemistry, University of Wisconsin, 1909–10; Student, Universities of Geneva and Berlin, 1910–12; Instructor in Chemistry, Adelbert College and the College for Women, Western Reserve University, 1913–15, Assistant Professor of Chemistry, 1915–21, Associate Professor, 1921; Professor of Chemistry, Cleveland Training School for Nurses, 1918; in charge of instruction in Chemistry, Cleveland School of Education, Summer Sessions, 1917–21. At Stanford since 1921.

†GIBBONS, HENRY WALTER, (123) Fillmore 3740
Assistant Clinical Professor of Obstetrics and Gynecology, 3491 Pacific, SF-sf
B.S., University of California, 1899; M.D., Cooper Medical College, 1902. Instructor in Pathology, Cooper Medical College, 1905–07, Instructor in Gynecology, 1907–11. At Stanford since 1912.

[†GIBBONS, MORTON RAYMOND, Pacific 1658
Lecturer on Medical Aspect of Insurance, 3979 Washington, SF-sf]
A.B., California, 1891; M.D., Cooper Medical College, 1894. Instructor in Clinical Medicine, Cooper Medical College, 1904–09. At Stanford 1909–16, and since 1919.

GILBERT, CHARLES HENRY, (23)
Professor of Zoology, 21 Salvatierra
B.S., Butler University, 1879; M.S., Indiana, 1882, Ph.D., 1883. Assistant in Natural Sciences and Modern Languages, Indiana University, 1880–84; Professor of Natural History, University of Cincinnati, 1884–89; Professor of Zoology, Indiana University, 1889–91; Assistant to the U. S. Bureau of Fisheries, since 1880; Assistant, in charge of scientific explorations of the U.S.S. "Albatross," 1889, 1890, 1902, 1904, 1906; in charge of salmon investigations for British Columbia since 1912. At Stanford since 1891.

†GILMAN, PHILIP KINGSNORTH, (123) Fillmore 7906
Clinical Professor of Surgery, 1803 Broadway, SF-sf
A.B., Stanford, 1901; M.D., Johns Hopkins, 1905. Assistant Resident Surgeon, Johns Hopkins Hospital, 1905–07; Assistant Professor of Pathology, Philippine Medical School, 1907–08; Assistant Professor of Surgery, College of Medicine and Surgery, University of the Philippines, 1908–12, Professor of Surgery and Chief of Department, 1912–16; Chief Surgeon, Philippine General Hospital, 1912–16; Lieutenant, M.C., U.S.N.R., 1917–19. At Stanford since 1916.

†GIRARD, FRANK ROBERT, (123) Franklin 2441
Assistant Clinical Professor of Obstetrics and Gynecology, Bohemian Club, SF-sf
M.D., California, 1903. Volunteer Assistant, Koenigliches Krankenhaus, Berlin, Germany, 1905–06; House Pathologist and House Surgeon, St. Luke's Hospital, New York, 1906–08; Assistant Resident Physician, Sloane Maternity Hospital, New York, 1908–09; Major, M.C., U.S.A., 1917–19; Chief, Surgical Service, Base Hospital No. 47, A.E.F., France. At Stanford since 1914.

†GODDARD, CHARLES BALDWIN, (1234) PA 522R
Assistant Registrar, 541 Seale
A.B., Stanford, 1904. Graduate Student, University of Wisconsin, Summer, 1910; Special Student, Washington University, St. Louis (Mo.), 1915; Teacher of English, Yeatman High School, St. Louis, 1904–09, Assistant Principal, 1909–18; Teacher of English, Harris Teachers College, St. Louis, Summer Sessions, 1914, 1915; District Representative, War Camp Community Service (Inc.), 1918–21. At Stanford since 1921.

GOLDER, FRANK ALFRED, (234)
Professor of History, 216 Stanford Union
A.B., Harvard, 1903, Ph.D., 1909. Instructor in History, University of Missouri, 1908–09, in History and Economics, Boston University, 1909, in History, University of Chicago, 1910; Assistant Professor of History, State College of Washington, 1910–14, Professor, 1915–20; Investigator in Russian Archives for Carnegie Institution, Washington (D.C.), 1914–15, for Carnegie Institution and American Geographical Society, 1917; Researches for U. S. Government in connection with the War, 1917–18. At Stanford since 1923.

†Gottbrath, Norbert J., (123) Belmont 37
Clinical Instructor in Medicine (Neurology), Ralston Ave., Belmont-b
B.S., St. Mary's Institute (Dayton, O.), 1898; M.D., Georgetown University, 1912. Clinical Assistant, Neurological Institute, New York City, 1914–15; Attending Physician and Instructor, Vanderbilt Clinic, 1914–16.

Graham, Harrington Bidwell, (1) Prospect 4400
Associate Clinical Professor of Surgery (Otology, Rhinology, and Laryngology), Olympic Club, SF-sf
B.S., California, 1896, M.D., 1899. Superintendent of Waldeck Sanitarium, 1899; Assistant in Surgery, San Francisco Polyclinic, 1904; Assistant, Ear, Nose, and Throat Clinic, Cooper Medical College, 1910–11; Lieutenant Commander, U.S.N.R.F., 1918–19. At Stanford since 1912.

†Gray, Henry David, (123) PA 1042R
Associate Professor of English, 22 Alvarado
Ph.B., Colgate, 1897; A.M., Columbia, 1898, Ph.D., 1904; Litt.D., Colgate, 1919. Assistant in German and French, Colgate Academy, 1896–97; University Scholar, Columbia University, 1898–1900; Instructor in Dramatic Literature, American Academy of Dramatic Arts, 1900–02; Instructor in English, University of Texas, 1902–05; Lecturer in English, Columbia University, Summer Session, 1905, University of Oregon, Summer Session, 1910, University of Illinois, Summer Session, 1912. At Stanford since 1905.

Green, Boynton Morris, (123)
Assistant Professor of Mechanical Engineering, 209 Stanford Union
A.B., Stanford, 1914, M.E., 1916. Student Engineer, H. Koffers Company, Pittsburgh (Pa.), 1916; Draftsman and Construction Engineer, Federal Telegraph Company, 1917, 1919–21. At Stanford 1920, and since 1921.

†Green, Rufus Lot, (123) PA 1127J
Professor of Mathematics, 13 Salvatierra
B.S., Indiana, 1885, A.M., 1889. Instructor in Mathematics, Indiana University, 1885–86, Assistant Professor, 1886–88, Associate Professor, 1889–91, Professor of Pure Mathematics, 1891–93; Student, Johns Hopkins University, 1886–87. At Stanford since 1893.

†Guest, Harold Walter, (123)
Acting Assistant Professor of Economics, 201 Homer-p
A.B., Albion, 1921; A.M., Illinois, 1922. Assistant in Economics, University of Illinois, 1921–22; Instructor in Economics, Lafayette College, 1922–24. At Stanford since 1924.

†Haas, Sylvan Lewis, (123) Pacific 8713
Assistant Clinical Professor of Surgery (Orthopedics), 579 11th Ave., SF-sf
B.S., University of California, 1904; M.D., Johns Hopkins Medical School, 1908. At Stanford 1912–18, and since 1923.

Hadden, Elizabeth, (1234) PA 734W
Chief of Order Division, Library, 151 Kellogg-p
At Stanford since 1901.

Haley, Bernard Francis, (12) PA 1923W
Instructor in Economics, 25 Alvarado
A.B., Stanford, 1922, A.M., 1923. Graduate Student, Harvard University, 1923–24.

†Hall, Howard Judson, (34) LA 10J
Associate Professor of English, University, Los Altos
B.S., Michigan State College, 1890; A.B., Stanford, 1896; A.M., Harvard, 1900. Professor of English, and Librarian, University of Arizona, 1891–1904; Instructor, Army Educational Corps, A.E.F., University, Beaune, Cote d'Or, France, 1919. At Stanford since 1904.

HALLBERG, LAURA SANFORD (Mrs.), (1234) Fillmore 9972
Secretary to Dean of Medical School, 2295 California, SF-sf
A.B., Stanford, 1917.

†HANZLIK, PAUL JOHN, (1234) San Mateo 1117
Professor of Pharmacology, 819 Prospect Row, SM-sm
Ph.C., Iowa, 1908; A.B., Illinois, 1908, A.M., 1911; M.D., Western Reserve, 1912. Demonstrator in Pharmacology, Western Reserve University, 1912–13, Instructor, 1913–15; Associate, 1915–17, Assistant Professor, 1917–20, Associate Professor, 1920–21. At Stanford since 1921.

†HARCOURT, ROBERT HENRY, (123) PA 1499R
Teaching Specialist in Forge Practice, 760 Middlefield-p
Graduate, Santa Barbara State Normal School, 1917. Apprentice and Blacksmith with Risdon Iron Works, San Francisco, 1898–1901, 1903–04; with Hammond Car and Elevator Company, San Francisco, 1901–02, 1904–05; with National Iron Works, San Francisco, 1902–03; Toolman with Abner Doble Steel Company, San Francisco, 1905–06, Foreman of Forge Shop, 1906–07; Instructor in Machine Shop Practice, Forge Practice, and Sheet Metal Work, State Normal School, Santa Barbara, Summer Session, 1919. At Stanford since 1907.

†HARTMAN, GEORGE WASHINGTON, (123) Franklin 270
Lecturer on Genito-Urinary Surgery, 1005 Hyde, SF-sf
B.S., California, 1903; M.D., Johns Hopkins, 1908. Resident Physician, French Hospital, New York City, 1908, Flushing Hospital, 1909; Adjunct in Urology, German Hospital, San Francisco, 1909–18; Urologist, Franklin Hospital, San Francisco, 1918; Chief, Urological Clinic, San Francisco Polyclinic, 1918; Chief of Clinic, San Francisco Hospital, 1917–18. At Stanford since 1919.

HAVEN, MAUDE NOBLE (Mrs.), (123) Fillmore 1151
Clinical Instructor in Medicine (Neurology), 611 Baker, SF-sf
Ph.B., California, 1894; M.D., Cooper Medical College, 1900. Assistant Woman's Clinic, Children's Hospital, San Francisco, 1901–04. At Stanford 1914–15, and since 1917.

HAYS, ALICE NEWMAN, (1234) PA 1052J
Reference Librarian, 3 Alvarado
A.B., Stanford, 1896; B.L.S., New York State Library School, 1903. Assistant, Home Education Department, New York State Library, 1901. At Stanford since 1901.

†HEATH, HAROLD, (1234) PA 1803J
Professor of Zoology, 1147 Ramona-p
A.B., Ohio Wesleyan, 1893; Ph.D., Pennsylvania, 1898; D.Sc., Ohio Wesleyan, 1919. Assistant in Biology, Ohio Wesleyan University, 1891–93; Professor of Biology, University of the Pacific, 1893–94; Harrison Fellow in Zoology, University of Pennsylvania, 1896–98. At Stanford since 1894.

†HENLINE, HENRY HARRISON, (123) PA 1632R
Associate Professor of Electrical Engineering, 1410 Middlefield
B.S., Illinois, 1914. Instructor in Science and Mathematics, Oktaha (Okla.) H. S., 1914–15; Graduate Chicago Central Station Institute, 1916; with Commonwealth Edison Co., 1916–17. At Stanford since 1917.

†HEWLETT, ALBION WALTER, (1234) Bayview 2160
Professor of Medicine, 3880 Washington, SF-sf
B.S., University of California, 1895; M.D., Johns Hopkins, 1900. Assistant Professor of Theory and Practice of Medicine, Cooper Medical College, 1906–08; Professor of Internal Medicine, University of Michigan, 1908–16; Lieutenant-Commander, U.S.N.R.F., 1917–19. At Stanford since 1916.

†HILL, HAROLD PHILLIPS, (123) Bayview 7716
Clinical Professor of Medicine, 3625 Jackson, SF-sf
A.B., Stanford, 1898; M.D., California, 1901. Assistant in Physiology, Department of Medicine, University of California, 1899–1901, Instructor, 1901–03; Assistant Visiting Physician, St. Luke's Hospital, 1903–06, Visiting Physician, since 1906. At Stanford since 1912.

†Hill, Henry Granville, (123) SJ 1863
Lecturer in Law, 465 S. 15th, SJ-sj
A.B., Stanford, 1909; J.D., 1911.

Hitchcock, Jeannette McCrory, (1234) PA 1025
Cataloguer, Library, 1 Salvatierra
A.B., Stanford, 1915; B.L.E., University of Washington, 1918. At Stanford since 1923.

Hobe, Adelaide M., (1234) MP 801J
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†Hoover, Theodore Jesse, (123)
Professor of Mining and Metallurgy, 9 San Juan
A.B., Stanford, 1901. Assayer, Superintendent, Manager, Consulting Engineer, Managing Director, Director, and President of many mining companies in America, Europe, Asia, Africa, and Australia, 1901–19. At Stanford since 1919.

†Hoskins, Leander Miller, (123) PA 75
Professor of Applied Mathematics, 1240 Waverley-p
B.C.E., and B. S., Wisconsin, 1883, M.S., 1885, C.E., 1887. Instructor in Engineering, University of Wisconsin, 1885–89, Assistant Professor of Mechanics, 1889–91, Professor of Theoretical and Applied Mechanics, 1891–92. At Stanford since 1892.

†Hotelling, Harold, (1234) PA 1946J4
Junior Associate, Food Research Institute, Maybell Ave., Alta Mesa
A.B., University of Washington, 1919, M.S., 1921; Ph.D., Princeton, 1924. Assistant in Mathematics, University of Washington, 1920–21; University Scholar, University of Chicago, Summer Quarter, 1920; J.S.K. Fellow in Mathematics, Princeton University, 1921–22, Instructor, 1922–24. At Stanford since 1924.

†Hulme, Edward Maslin, (123) PA 399M
Associate Professor of History, 638 Channing
A.B., Stanford, 1897; A.M., Cornell, 1902. University Scholar, Harvard University, 1900–01; Cornell Traveling Scholar at Collège de Sorbonne, 1902; Student in Europe, 1919–20; Instructor in Literature and History, High School, Portland (Ore.), 1897–1900; Assistant Professor of History, University of Idaho, 1902–05, Associate Professor, 1905–06, Professor, 1906–21, Dean of College of Letters and Science, 1917–21; Acting Professor of European History, Stanford University, Winter Quarter, 1918; Professor of European History, University of California, Summer Session, 1918; Professor of European History, University of Chicago, 1919. At Stanford since 1921.

†Hunt, Ernest Paul, (1234) PA 1834R
Director of Freshman Sports, 127 Harriett
A.B., Indiana, 1913. Assistant in Physical Education, Indiana University, 1910–13; Director of Physical Education, Linton (Ind.), 1913–14, Monte Vista (Colo.), 1914–16; Supervisor of Physical Education, Waco (Tex.) Public Schools, 1916–18, Berkeley High School, 1918–21. At Stanford since 1922.

†Hyde, James Macdonald, (123) PA 768W
Professor of Metallurgy, 260 Churchill
A.B., Stanford, 1901. Curator, California State Mining Bureau, 1901–02; Assistant Professor of Mining and Metallurgy, University of Oregon, 1903–06; Metallurgist, Guanajuato Consolidated Mining and Milling Co., Guanajuato (Mexico), 1906; Superintendent, Manhattan Ore Reduction and Refining Company, 1907; Field Agent, Mexican Syndicate, 1910; Consulting Engineer and Independent Operator, 1907–19. At Stanford since 1919.

†Ichihashi, Yamato, (123) PA 1477W
Associate Professor of Japanese History and Government, 7 Salvatierra
A.B., Stanford, 1907, A.M., 1908; Ph.D., Harvard, 1914. Assistant in Economics, Stanford University, 1908–10; Special Agent for U. S. Immigration

Commission, 1908–10; Graduate Student, Harvard University, 1910–12, Henry Bromfield Roger Memorial Fellow in Sociology, 1911–12. At Stanford 1908–10, and since 1913.

†INMAN, THOMAS GEORGE, (123) Pacific 7036
Associate Clinical Professor of Medicine
(Neurology), 4547 California, SF-sf
Ph.G., California College of Pharmacy, 1892; M.D., Cooper Medical College, 1894. Assistant Demonstrator of Anatomy, Cooper Medical College, 1895–1900; Instructor in Applied Anatomy, 1900–11; Assistant Surgeon, St. Luke's Hospital, San Francisco, 1906–13, Visiting Neurologist, since 1915; Neurologist to Navy Base Hospital No. 2, 1917, 1918. At Stanford since 1915.

IRVING, LAURENCE, (123) PA 827R
Instructor in Physiology, 1155 Stanford Ave., Mayfield
A.B., Bowdoin, 1916; A.M., Harvard, 1917; Ph.D., Stanford, 1924. At Stanford since 1924.

JACOBSEN, LYDIK SIEGUMFELDT, (123)
Instructor in Mechanical Engineering, 210 Stanford Union
A.B., Stanford, 1921. Engineering Research with Westinghouse Electric and Manufacturing Company, East Pittsburgh (Pa.), 1921–24. At Stanford since 1924.

†JENKINS, JOHN M., JR., (1234) PA 269J
Assistant Professor of Military Science and Tactics, 939 Cowper-p
Student, Case School of Applied Sciences, 1912–16; Captain Field Artillery, U.S.A. At Stanford since 1924.

†JENNINGS, HERBERT SPENCER, (4)
Acting Professor of Biology (Summer Quarter),
Pacific Grove-pg
B.S., Michigan, 1893, D.S., 1918; A.M., Harvard, 1895, Ph.D., 1896; LL.D., Clark, 1909. Professor of Botany, Montana State Agricultural College, 1897–98; Instructor in Zoology, Dartmouth College, 1898–99; Assistant Professor of Zoology, University of Michigan, 1900–03; University of Pennsylvania, 1903–05; Professor of Experimental Zoology, Johns Hopkins University, 1906–10, Henry Wolter Professor of Zoology, and Director of the Zoological Laboratory, since 1910.

JOHNSON, HENRY CHARLES, (4)
Acting Assistant Professor of Education
(Summer Quarter), 228 Toyon
Ph.B., Iowa, 1902, A.M., 1907. Principal of High School, Decorah (Ia.), 1902–04, Superintendent of Schools, 1904–09; Superintendent of Schools, Aberdeen (S.D.), 1909–17; Superintendent of City Schools, Ogden (Utah), 1917–19, San Diego (Calif.), since 1919.

†JOHNSTON, ARTHUR M., (1234) PA 1543W
Executive Assistant, Food Research Institute, 436 Waverley-p

†JOHNSTON, OLIVER MARTIN, (124) PA 1040R
Professor of Romanic Languages, 4 Alvarado
A.B., Mississippi College, 1890, A.M., 1892; Ph.D., Johns Hopkins, 1896. Principal, Preparatory Department, Mississippi College, 1890–91, Professor of English, 1891–93; Fellow in Johns Hopkins University, 1895–96; Lecturer in French Philology, Bryn Mawr College, 1896–97; Secretary, Pacific Coast Philological Association, 1909–13, President, 1917; Professor of French, University of California, Summer Session, 1919. At Stanford since 1897.

[†JONES, ELIOT, PA 1031W
Professor of Economics, 31 Salvatierra]
A.B., Vanderbilt, 1906; A.M., Harvard, 1908, Ph.D., 1913. Instructor in Economics, Harvard University, 1912–13, University of Pennsylvania, 1913–14; Associate Professor of Economics, Iowa State University, 1914–16; Professor of Economics, University of Texas, 1916–17; Federal Trade Commission, 1917; War Industries Board, 1918; Lecturer in Economics, University of California, Summer Session, 1920, 1921. At Stanford since 1917.

KATZ, LOUISE WALDMAN, (1234) PA 1025
Cataloguer, Hoover War Library, 1 Salvatierra
B.S., Cornell, 1900. Graduate work in History, Cornell University, 1900–01; Student, New York State Library School, Albany (N.Y.), 1901–03; Cataloguer, University of California, 1903–11; Special Cataloguer, University of Illinois, 1913–14; Catalogue Reviser, University of Minnesota, 1914–16; Cataloguer, Lane Medical Library, 1917–20; Catalogue Reviser and Classifier, University of Minnesota, 1920–21. At Stanford 1916–17, and since 1921.

†KAY, WILLARD E., (123) Fillmore 8639
Clinical Instructor in Medicine, 2230 Steiner, SF-sf
A.B., Stanford, 1912, M.D., 1916. At Stanford, 1912–14, 1917–18, and since 1923.

†KEEFER, CHAUNCEY TENNENT, (1)
University Engineer

KELLEY, KENNETH KEITH, (1234)
Instructor in Applied Mathematics, 420 Florence-p
A.B., Stanford, 1923, A.M., 1925. At Stanford since 1923.

†KELLEY, TRUMAN LEE, (124) PA 1646
Professor of Education, San Juan
A.M., Illinois, 1911; Ph.D., Columbia, 1914. Consulting Psychologist, Culver Military Academy, 1913–14; Adjutant Professor of Educational Psychology, University of Texas, 1914–17; Assistant Professor of Education, Teachers' College, Columbia University, 1917–21; engaged in Psychological and Statistical Work for Surgeon General's Office, Adjutant General's Office, and for Committee on Education and Special Training, 1917–18; Chief Statistician, Elementary School Intelligence Examination Board of National Research Council, Summer, 1918. At Stanford since 1921.

†KELLY, THOMAS HENSHAW, (123) Fillmore 5518
Clinical Instructor in Medicine, 2936 Divisadero, SF-sf
M.D., University of Cincinnati, 1914. Interne, Cincinnati General Hospital, 1914–15; Instructor in Medicine, University of Cincinnati, 1915–19; Medical Director, St. Francis Hospital, San Francisco, 1920; First Lieutenant, Captain and Major, M.C., U.S.A., 1917–19. At Stanford since 1921.

†KENNEDY, ARTHUR GARFIELD, (123)
Assistant Professor of English Philology, 435 Coleridge-p
A.B., Doane College, 1902; A.M., Nebraska, 1905; Ph.D., Stanford, 1914. Teacher, Chadron (Neb.) Academy, 1902–04, Norfolk (Neb.) H. S., 1905–08; Instructor in German and English, Spearfish (S. Dak.) State Normal School, 1908–12. At Stanford since 1914.

†KENNEY, WILLIAM, (123) Sunset 1310
Clinical Instructor in Medicine, 1379 6th Ave., SF-sf
M.D., California, 1905. Resident Physician, St. Luke's Branch Hospital, 1906–08; Resident Physician, Relief House, 1908–14. At Stanford, 1914–16, 1917–18, and since 1919.

†KENT, ARTHUR HAROLD, (4)
Acting Assistant Professor of Law (Summer Quarter), 706 Cowper-p
A.B., Southern California, 1917; J.D., Stanford, 1925.

†KERR, ANDREW, (1234) PA 1504J
Assistant Director of Football
and Director of Basketball, 835 Middlefield-p
Ph.B., Dickinson, 1900. Instructor in Coaching, University of Pittsburgh, 1914–22. At Stanford since 1922.

†KILE, ROBERT FRANCIS, (23) Bayview 4318
Instructor in Medicine (Radiology), 6625 California, SF-sf
M.D., University of Pennsylvania, 1919. Assistant Surgeon, U.S.P.H.S., 1919–21. At Stanford since 1921.

†KINDY, WARD B., (123) PA 1384W
Instructor in Electrical Engineering, 566 Everett-p
B.E.E., Ohio State, 1916. Electrical Inspector, U. S. Army Signal Corps, 1916–17; Aerial Gunnery Instructor, U. S. Naval Air Station, Key West, 1918; Instructor in Electrical Engineering, Iowa State College, 1920–21. At Stanford since 1921.

†KINGSLEY, JOHN STERLING, (4) PG 673
Lecturer in Biology (Summer Quarter), Pacific Grove-pg
A.B., Williams, 1875; D.Sc., Princeton, 1885. Professor of Biology, Indiana University, 1887–89, University of Nebraska, 1889–91, Tufts College, 1892–1913; University of Illinois, 1913–20, Emeritus, 1920.

†KINGSTON, JOHN JOSEPH, (123) Bayview 5670
Clinical Instructor in Medicine (Pediatrics), 805 Lake, SF-sf
M.D., California, 1921. Interne, University Hospital, 1920–21; Assistant in Pediatrics, University Hospital, 1921–22.

KINSLOW, FRANK ALOYSIUS, (3) Prospect 4700
Clinical Instructor in Medicine, Clift Hotel, SF-sf
M.D., Cooper Medical College, 1906. Interne, St. Joseph's Hospital, 1906–07; First Lieutenant, M.C., U.S.A., 1918–19. At Stanford since 1920.

†KIRKWOOD, MARION RICE, (1234) PA 1345J
Professor of Law, and Dean of the Law School, 249 Lowell
A.B., Stanford, 1909, J.D., 1911. Student, Harvard Law School, 1909–10; Assistant Professor of Law, University of Oklahoma, 1911–12. At Stanford since 1912.

†KNOLLIN, ERNEST RAY, (4) SJ 7799W
Lecturer in Physical Education (Summer Quarter),
1046 S. 7th, San Jose-sj
A.B., Stanford, 1914. Instructor in Physical Education, Stanford University, 1914–18; University of Illinois, 1919–21; Assistant Professor of Education, and Dean of Men, State Teachers College, San Jose, since 1924.

†KOFOID, CHARLES ATWOOD, (4)
Lecturer in Zoology (Summer Quarter), Berkeley-b
A.B., Oberlin, 1890; A.M., Harvard, 1892, Ph.D., 1894; hon. D.Sc., Oberlin, 1915, University of Wales, 1920. Instructor in Vertebrate Morphology, University of Michigan, 1894–95; Superintendent, Biological Station, University of Illinois, 1895–1900, Assistant Professor of Zoology, 1897–1900; Assistant Professor and Associate Professor of Histology and Embryology, University of California, 1900–10, Professor of Zoology, since 1910.

†KROLL, FREDERICK WALTER, (123) Prospect 2300
Clinical Instructor in Medicine, 1242 Washington, SF-sf
M.D., Cooper Medical College, 1912. Captain, M.R.C., U.S.A., 1916–18. At Stanford, 1913–14, and since 1920.

LANDIS, MAUDE, (1234) West 6193
Superintendent of Nurses, and Professor of Nursing, 2340 Clay, SF-sf
A.B., Kansas, 1917; Graduate, Scarritt Hospital Training School, 1900. Graduate Study, Presbyterian Hospital, Chicago, 1905; Graduate Study, Department of Nursing and Public Health, Columbia University, 1917; Superintendent of Hospitals and Training Schools, 1901–17; Member Missouri State Board of Examination and Registration of Nurses, 1909–14; Educational Director, Lakeside Hospital Training School, Cleveland (O.), 1917–18; Director, Connecticut Training School for Nurses, in affiliation with Yale University Medical School, 1918–21. At Stanford since 1921.

†LANGNECKER, HARRY LESLIE, (1234) PA 854
Associate Clinical Professor of Surgery (Orthopedics), 1711 Webster-p
A.B., Stanford, 1901; M.D., Johns Hopkins, 1906. Gynecological House Officer, Johns Hopkins Hospital, 1906–08; Orthopedic House Officer, Massachusetts General Hospital, 1908, Assistant in Orthopedic Surgery, Out-Patient Depart-

ment, 1909–11; Assistant Resident Physician, 1911–13, Assistant to Orthopedic Surgeon-in-Chief, 1913–15; Lieutenant, M.C., U.S.N.R.F., 1917–19. At Stanford since 1915.

†LANZ, HENRY, (1234) PA 509
Instructor in Slavic Languages, 918 Cowper-p
Ph.D., Heidelberg, 1911. Student, Imperial University, Moscow, 1904–06, Heidelberg, 1906–11; Instructor-elect in Logic, Reform Gymnasium, and Lecturer in Aesthetics, Beethoven School of Music, Moscow, 1914.

LAPE, FREDERICK, (123) PA 964W
Instructor in English, 19 Salvatierra
A.B., Cornell, 1921. At Stanford since 1923.

LAYMAN, MARY H., (123) Fillmore 1953
Assistant Clinical Professor of Medicine (Pediatrics), 2582 Filbert, SF-sf
M.D., Ludwig-Maximilian University, Munich, 1913. Assistant, Medical and Pediatric Clinic, Munich, 1915–16; Assistant Visiting Physician, Pediatrics, San Francisco Hospital, 1917–19. At Stanford since 1917.

†LEE, RUSSELL VON ARSDALE, (123) PA 2210
Clinical Instructor in Therapeutics, 320 Embarcadero
B.S., California, 1917; M.D., Stanford, 1920. At Stanford since 1922.

†LEIGHTON, JOSEPH ALEXANDER, (4)
Acting Professor of Philosophy (Summer Quarter),
A.B., Trinity College, Toronto, 1891; Ph.D., Cornell, 1894; S.T.B., Episcopal Theological Seminary, Cambridge (Mass.), 1896; LL.D., Hobart College, 1913. Student, Universities of Tübingen and Erlangen, 1896–97; Professor of Philosophy, and Chaplain, Hobart College, 1897–1910; Professor of Philosophy, Ohio State University, since 1910.

†LEMOS, PEDRO J., (1234) PA 396J
Director of the Museum and Art Gallery, 460 Churchill
Assistant Professor of Etching and Lettering, University of California, 1910–11, Professor of Design and Applied Arts, 1911–12; Director of San Francisco Institute of Art, 1912–17; Exhibitor, Pennsylvania Academy of Fine Arts, Carnegie Institute, Pittsburgh, Brooklyn Museum of Fine Arts, Chicago Art Institute, New York Galleries, Panama-Pacific International Exposition; editor of the School Arts Magazine. At Stanford since 1917.

LENOX, LIONEL REMOND, (123)
Professor of Analytical Chemistry, 73 N. 6th, San Jose
Ph.B., Columbia, 1888. Assistant Chemist, Bethlehem Steel Co., 1887; Instructor in Chemistry, Lehigh University, 1888–91; Chemist, Ordnance Department, U.S.N., Washington (D.C.), 1891–92; Chief Chemist, Conkling Iron Co., 1888–92; Chemist, Allan Cement Co., 1890–91. At Stanford since 1892.

†LESLEY, EVERETT PARKER, (123) PA 1570
Professor of Mechanical Engineering, 18 Alvarado
A.B., Stanford, 1897; M.M.E., Cornell, 1905. Apprentice and Foreman in Union Iron Works, San Francisco, 1897–1903; Assistant Inspector to Naval Constructor, 1903–04; Draftsman at U. S. Experimental Model Basin, Washington (D.C.), 1905–07. At Stanford since 1907.

LEWIS, JOHN KENT, (1234) West 6193
Clinical Instructor in Medicine, Lane Hospital, SF-sf
A.B., Stanford, 1918, M.D., 1922. Junior Interne, Lane Hospital, 1921–22; Resident in Medicine, Lane Hospital, 1923–24. At Stanford since 1924.

†LIGGETT, JAMES BENNETT, (123) PA 824J
Teaching Specialist in Foundry Practice, 760 Waverley-p
Apprentice and Foundry Molder, Falls Rivet and Machine Co., Cuyahoga Falls (Ohio), 1883–88, Webster Camp & Lane, Akron (Ohio), 1888–93, Bowler & Co., Cleveland (Ohio), 1893–98, Cleveland Steel Casting Co., 1898–99; Foreman, Born Steel Range Co., Cleveland (Ohio), 1899–1902, Westinghouse Electric Co., Cleveland (Ohio), 1902. At Stanford since 1902.

LOTHROP, MARGARET MULFORD, (234) PA 1911
Instructor in Economics, 6 Cabrillo
A.B., Smith, 1905; A.M., Stanford, 1915. At Stanford since 1915.

[†LOWRY, CHARLES DOAK, JR., PA 1825J
Instructor in Organic Chemistry, Stanford University]
B.S., Northwestern, 1917, M.S., 1920; A.M., Harvard, 1921, Ph.D., 1924. Sheldon Traveling Fellowship, Harvard University, 1924–25; Student, University of Munich, 1924–25. At Stanford since 1921.

†LUTTRELL, PETER HARRISON, (123) West 7619
Clinical Instructor in Medicine, 2617 Sacramento, SF-sf
M.D., Cooper Medical College, 1908. Assistant in Medical Clinic, Cooper Medical College, 1908–10, Instructor in Physical Diagnosis, 1910–11; Assistant in Medical Wards, Lane Hospital, 1911–14. At Stanford, 1916–17, 1918–20, and since 1921.

†LUTZ, HARLEY LEIST, (23) PA 1028
Professor of Economics, 1400 Webster-p
A.B., Oberlin, 1907; A.M., Harvard, 1908, Ph.D., 1914. Professor of Economics, Oberlin College, 1909–23, Head of Department, 1914–23; Economic Adviser, Joint Taxation Commission, Ohio General Assembly, 1919. At Stanford since 1923.

LUTZ, RALPH HASWELL, (1234) PA 1680
Associate Professor of History, 2 Stanford Union
A.B., Stanford, 1906; LL.B., Washington, 1907; Ph.D., Heidelberg, 1910. Student, Universities of California (summer, 1906), Bonn and Heidelberg (1907–10), Berlin (summer, 1913); Instructor in History, University of Washington, 1911–16, Assistant Professor, 1916–20; Lecturer in European History, Stanford University, 1915–16. At Stanford, 1915–16, and since 1920.

†LYON, LEONARD SAXTON, (123)
Lecturer in Law, 708 National City Bank Bldg., Los Angeles-la
A.B., Stanford, 1918.

MCCLANAHAN, MARGARET HOPE, (23) West 6193
Instructor in Practice of Nursing, 2340 Clay, SF-sf
A.B., Cornell University. At Stanford since 1924.

MCCRACKEN, MARY ISABEL, (1234) PA 1127W
Associate Professor of Entomology, 1 Arguello
A.B., Stanford, 1904, A.M., 1905, Ph.D., 1908. Student, Paris and London, 1912–13. At Stanford since 1904.

†MCDOWELL, JOHN EZRA, (1234) LA 56
Academic Secretary, and Alumni Secretary, Los Altos
A.B., Stanford, 1900. At Stanford since 1900.

†MCFARLAND, FRANK MACE, (123) PA 480
Professor of Histology, 2 Cabrillo
Ph.B., De Pauw, 1889; A.M., Stanford, 1893; Ph.D., Würzburg, 1896. Professor of Biology and Geology, Olivet College, 1889–92; Student, Würzburg, Zürich, and Naples, 1894–96. At Stanford since 1892.

MCGOUN, ARCHIBALD FORSTER, (24) PA 1386R
Acting Assistant Professor of Economics, Kingscote
A.B., McGill, 1912, B.C.L., 1914; A.M., Harvard, 1919. Lecturer and Assistant Professor of Economics, University of Alberta, 1920–24. At Stanford since 1925.

†MCKEE, ALBERT BROWN, (1234) Redwood 1704F4
Clinical Professor of Surgery
(Ophthalmology), Woodside-RFD, rc
Ph.B., University of the Pacific, 1883, Ph.M., 1886; M.D., Cooper Medical College, 1886. Instructor and Acting Head of the Eye, Ear, Nose, and Throat Division, University of California Medical Department, 1902–08; Associate Professor of Ophthalmology, Cooper Medical College, 1908–12. At Stanford since 1912.

†McLaughlin, Roy Parmelee, (123) Trinity 847
Lecturer in Oil Technology and Petroleum Engineering, 902 Wright-Callender Bldg., Los Angeles-la
A.B., Stanford, 1902, Engineer, 1915. Assistant Engineer, North Star Mines Co., Grass Valley (Calif.), 1904; Engineer, Consolidated Mining Co., Bodie, 1905–06, Mono Lake Railway & Lumber Co., 1907; Geologist, Associated Oil Co., San Francisco, 1908–15; Chief of Petroleum Department, California State Mining Bureau, 1913–15; California State Oil and Gas Supervisor, 1915–20; Consulting Petroleum Engineer and Geologist, 1921–22. At Stanford since 1922.

†McMurphy, James Ira Wilson, (234)
Assistant Professor of Botany, 144 Melville
A.B., Stanford, 1908, A.M., 1909. At Stanford since 1908.

†McNaught, Harvard Young, (123) Bayview 584
Associate Clinical Professor of Surgery (Otology, Rhinology, Laryngology), 755 14th Ave., SF-sf
M.D.C.M., Trinity University, 1897. Fellow by Examination, Trinity Medical College, 1897; Assistant, Ear, Nose, and Throat Clinic, Cooper Medical College, 1911–12. At Stanford since 1913.

Mahr, August Carl, (1234)
Instructor in German, 8 Stanford Union
Ph.D., Heidelberg, 1911; Oberlehrer-Examen, Karlsruhe, 1912. Instructor in German, Sheffield Scientific School, Yale University, 1912–14; Director of the Zentralstelle für Kulturelle Arbeiten in Rüstungen and Editor of *Die Tide*, 1918–21; Teacher of English, German, and History of Art, Bergschule Hochwaldhausen, 1921–23.

†Maloney, Henry Wilfred, (1234) PA 696
Associate Director of Encina Gymnasium, 1102 Guinda
Military Gymnastic School, Dublin, Ireland, 1899; Physical Instructor, British Army, 1899–1900; British War Service, South Africa, 1901–02; Gymnastic School, Pasadena, 1904–08; Captain and Athletic Officer, A.E.F., 1917–18; Track Coach and Trainer, U. S. Track Team, Inter-Allied Games, Paris, France, 1919; Trainer and Rugby Commissioner, Rugby Teams, Olympic Games, Antwerp, Belgium, 1920; President, California Rugby Union, since 1920; Western Representative, National (Soccer) Football Association, 1922. At Stanford since 1908.

†Manning, William Albert, (1234) PA 2326
Professor of Applied Mathematics, 27 Alvarado
A.B., Willamette University, 1900; A.M., Stanford, 1902, Ph.D., 1904. Student, University of Paris, 1904–05; Acting Assistant Professor of Mathematics, University of Illinois, 1909–10. At Stanford since 1900.

†Manwaring, Wilfred Hamilton, (124) PA 1509
Professor of Bacteriology and Experimental Pathology, 364 Kingsley-p
B.S., Michigan, 1895; M.D., Johns Hopkins, 1904. Fellow and Assistant in Pathology, University of Chicago, 1904–05; Associate Professor of Pathology, Indiana University, 1905–07; Traveling Fellow, Rockefeller Institute, 1907–08, v. Wassermann's Laboratory, Berlin, 1907–08, Ehrlich's Laboratory, Frankfort-on-Main, 1908–09, Lister Institute of Preventive Medicine, London, 1909–10; Assistant in Pathology, Rockefeller Institute, 1910–13; Lecturer in Functional Pathology, Washington University Medical School, 1920–21. At Stanford since 1913.

†Martin, Ernest Gale, (234) PA 1985
Professor of Physiology, 1525 Waverley
Ph.B., Hamline, 1897; Ph.D., Johns Hopkins, 1904. Assistant in Biology, Hamline University, 1896–97; Fellow in Physiology, Johns Hopkins University, 1902–03, Assistant, 1903–04; Instructor in Anatomy and Physiology, Purdue University, 1904–06; Instructor in Physiology, Harvard University, 1906–10, Assistant Professor, 1910–16; Instructor in Physiology, Simmons College, 1907–08; Lecturer in Physiology, Sargent School for Physical Education, 1906–14; Assistant Professor of Physiology, Radcliffe College, 1914–16. At Stanford since 1916.

†MARTIN, ERNEST WHITNEY, (123) PA 1580W
Associate Professor of Classical Literature, 525 Lincoln
A.B., Chicago, 1900; A.M., Stanford, 1902, Ph.D., 1910. Instructor in Latin and Greek, Private School, Clarinda (Ia.), 1895–96, Principal of High School, 1896–98; Student, University of Berlin and American School of Classical Studies, Rome, 1900–01; Acting Professor of Latin and Greek, University of Nevada, 1908–09, Professor of Greek, 1909–10. At Stanford since 1901.

†MARTIN, PERCY ALVIN, (123) PA 1923J
Professor of European History, 29 Salvatierra
A.B., Stanford, 1902, A.M., 1903; A.M., Harvard, 1907, Ph.D., 1912. Student, University of Paris, 1903–04, Universities of Berlin and Leipzig, 1907–08; Fellow, Harvard University, 1908; Professor of History and French, Whittier College, 1904–05; Lecturer in Latin-American History, Harvard University, 1915; Lecturer in South American History and Institutions, University of Washington, Summer Session, 1916. At Stanford since 1908.

†MARX, GUIDO HUGO, (123) PA 715
Professor of Machine Design, 356 Lincoln
M.E., Cornell, 1893. With Gleason Tool Co., Rochester (N.Y.), 1893–94; with Bement, Miles & Co., Philadelphia, 1894–95. At Stanford since 1895.

†MATTHEWS, JAMES THOMAS, (4)
Acting Assistant Professor of Mathematics (Summer Quarter), 359 Emerson
A.B., Willamette, 1892, A.M., 1893. Professor of Mathematics, Willamette University, since 1903.

†MAYNARD, MERLIN T. R., (3) SJ 6888W
Clinical Instructor in Medicine (Cutaneous Diseases) 571 N. 17th, SJ-sj
A.B., Stanford, 1919; M.D., Washington University, 1922. Interne, Lane Hospital, 1922–23.

†MEARS, ELIOT GRINNELL, (12) PA 1500
Lecturer in Economics, 23 Salvatierra
A.B., Harvard, 1910, M.B.A., 1912. Secretary and Instructor, Harvard Graduate School of Business Administration, 1912–16; Chief, Foreign Service Division, and later American Trade Commissioner in the Near East, United States Bureau of Foreign and Domestic Commerce, since 1916; Commercial Attaché to American High Commission in Turkey, 1919–20; Economist, Harboard Military Mission to Armenia and Transcaucasia, 1919; Permanent Secretary, Pan-Pacific Commercial Conference, Hawaii, 1922; Secretary, Survey of Race Relations, since 1924. At Stanford since 1920.

†MEHRTENS, HENRY GEORGE, (1234) Fillmore 6196
Associate Professor of Medicine (Neurology), 2101 California, SF-sf
B.S., California, 1911; M.D., Stanford, 1913. Senior House Officer, Lane Hospital, 1914–15, House Physician, since 1915. At Stanford since 1915.

MENTZER, MARY JONES (Mrs.), (123) Sunset 6521
Clinical Instructor in Medicine, 2444 Great Highway, SF-sf
M.D., Woman's Medical College, Pennsylvania, 1905. Resident Physician, Sheltering Arms, Philadelphia, 1906–08, San Francisco Polyclinic, 1916–18, 1919–20; on Active Staff, Arequipa Sanatarium, 1916. At Stanford since 1921.

MERRILL, MAUD AMANDA, (124) PA 1635
Assistant Professor of Psychology, 418 Florence
A.B., Oberlin, 1911; A.M., Stanford, 1920, Ph.D., 1923. At Stanford since 1920.

†MEYER, ARTHUR WILLIAM, (123) PA 1225
Professor of Anatomy, 121 Waverley-p
B.S., Wisconsin, 1898; M.D., Johns Hopkins, 1905. Assistant and Instructor in Anatomy, Johns Hopkins University, 1905–07; Assistant Professor of Anatomy, University of Minnesota, 1907–08; Professor of Anatomy, Northwestern University, 1908–09; Research Associate, Carnegie Institution, 1917–18. At Stanford since 1909.

MEYRICK, GERALDINE, (1234) PA 1929J
Secretary to Director of Summer Quarter and to Endowment Secretary, 1119 High

†MICHAUD, RÉGIS, (4) PA 2141J
Acting Professor of French (Summer Quarter) 35 Lasuen
L.ès.L., University of Paris, 1906. Assistant Professor, Princeton University, 1907–14; Associate Professor, Smith College, 1917–19; Professor of French, University of California, since 1919.

†MILES, WALTER RICHARD, (1234) PA 1731W
Professor of Experimental Psychology, 10 Cabrillo
A.B., Earlham, 1908; A.M., Iowa, 1910, Ph.D., 1913. Instructor in Psychology and Education, Penn College, 1908–10; Scholar in Education, University of Iowa, 1909–10, Fellow and Assistant in Psychology, 1910–12; Associate Professor of Psychology, Wesleyan University, 1913–14; Psychologist at Nutrition Laboratory of Carnegie Institution of Washington, Boston (Mass.), 1914–22. At Stanford since 1923.

†MILLER, ROLAND MCLEOD, (123) PA 878R
Instructor in Citizenship, 818 Cowper-p
A.B., British Columbia, 1916; A.M., California, 1920. Assistant Professor of Economics, University of Oregon, 1921–24. At Stanford since 1924.

†MILLS, LOUIS DAVID, (123) PA 1788
Lecturer in Metallurgy of Gold and Silver, 215 Coleridge-p
A.B., Stanford, 1901.

MIRRIELEES, EDITH RONALD, (123) PA 1746J
Assistant Professor of English, 4 Lasuen
A.B., Stanford, 1907. At Stanford since 1909.

†MITCHELL, JOHN PEARCE, (1234) PA 722
Professor of Chemistry, 235 Embarcadero
A.B., Stanford, 1903, A.M., 1904, Ph.D., 1909. Student, University of Leipzig, 1904–05. At Stanford, 1903–04, and since 1905.

†MORENO, HALCOTT CADWALADER, (123) PA 2269W
Professor of Applied Mathematics, 22 Mirada
A.B., University of Georgia, 1893, A.M., 1894, B.L., 1896; Ph.D., Clark, 1900. Tutor in Mathematics, University of Georgia, 1893–97; Scholar and Fellow in Mathematics, Clark University, 1897–1900, Assistant in Mathematics, 1900–01. At Stanford since 1901.

MORGAN, THEODORE HARDING, (123) PA 1757J
Instructor in Electrical Engineering, 243 Waverley
A.B., Stanford, 1920.

†MORRISON, STANLEY, (123) PA 2223W
Lecturer in Law, 1826 Waverley
A.B., Yale, 1915; LL.B., Harvard, 1919.

†MORSE, HARRY WHEELER, (123) PA 798J
Lecturer in the Hydrometallurgy of Copper, Lead, and Zinc, County Road
A.B., Stanford, 1897; Ph.D., Leipzig, 1902. Instructor and Assistant Professor of Physics, Harvard University, 1902–12; Lecturer in Chemistry, University of California, 1912–13; Consulting Chemist and Metallurgist since 1913.

†MOSER, CHARLES, (123) PA 2287
Associate Professor of Civil Engineering, 651 Homer
C.E., Ohio Northern University, 1902; A.B., Stanford, 1908. At Stanford since 1908.

MOSHER, CLELIA DUEL, (123) PA 32
Associate Professor of Personal Hygiene, and Medical Adviser of Women, 179 Lincoln-p
A.B., Stanford, 1893; A.M., 1894; M.D., Johns Hopkins, 1900. Assistant in

Hygiene and Physical Training, Stanford University, 1893–94, Instructor, 1894–96; Externe in the Johns Hopkins Hospital Dispensary, and Gynecological Assistant in Dr. Howard A. Kelly's Sanatorium, Baltimore (Md.), 1900–01; Physician, Palo Alto, 1901–10. At Stanford, 1893–96, and since 1910.

†MURRAY, AUGUSTUS TABER, (123) PA 2065
Professor of Classical Literature, 1019 Bryant
A.B., Haverford, 1885; Ph.D., Johns Hopkins, 1890. Fellow in Johns Hopkins University, 1887–88; Professor of Greek, Earlham College, 1888–90; Student, Universities of Leipzig and Berlin, 1890–91; Professor of Greek, Colorado College, 1891–92. At Stanford since 1892.

MURRAY, MARGARET, (1234) PA 1219J
Secretary to the Comptroller, 1011 Fulton

NAGEL, LAURA INGEBORG, (1234) LA 126J
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A.B., Stanford, 1904, A.M., 1905. At Stanford, 1908–09, and since 1919.

NEWCOMER, MABEL, (4)
Acting Associate Professor of Economics
(Summer Quarter), University Park
A.B., Stanford, 1913, A.M., 1914; Ph.D., Columbia, 1917. Instructor in Economics, Vassar College, 1917–18, Assistant Professor, 1918–20, Associate Professor since 1920; Special Investigator, New York Joint Committee on Taxation and Retrenchment, 1922, 1924; Economist, Educational Finance Inquiry, 1921–23.

†NEWELL, ROBERT REID, (1234) Bayview 5232
Assistant Professor of Medicine (Radiology), 2344 Anza, SF-sf
M.D., California, 1916. Assistant in Medicine, University of California, 1917. At Stanford since 1920.

†NORTON, OLIVER EDWARD, (123) PA 2305J
Instructor in Public Speaking, 633 Hamilton-p
A.B., College of the Pacific, 1921. Instructor in Public Speaking, College of the Pacific, 1921–23, Assistant Professor, 1923–24. At Stanford since 1924.

NYE, HELENA MAY, (123) PA 670J
Instructor in German, 281 Addison
A.B., Stanford, 1905, A.M., 1908. At Stanford since 1921.

†OLIVER, HARRY REEVES, (123) Fillmore 6141
Lecturer in Hygiene and Public Health, 2749 Union, SF-sf
M.D., Cooper Medical College, 1898. Assistant in Pathology, Cooper Medical College, 1898–1904, Instructor, 1904–06, Assistant Professor, 1906–11, Associate Professor of Clinical Pathology, 1911–12, Serologist, 1912. At Stanford since 1909.

†OLIVER, JEAN REDMAN, (1234) Franklin 3191
Professor of Pathology, 1246 Lombard, SF-sf
A.B., Stanford, 1911, M.D., 1914. Assistant in Pathology and Bacteriology, Rockefeller Institute for Medical Research, 1916–18, Associate, 1919; First Lieutenant and Major, M.C., U.S.A., Camp Meade (Md.); Group Laboratory Officer, Justice Hospital Group, Toul, France; Detailed on Medical History of the War, Central Medical Department Laboratory, Dijon, France, and Surgeon General's Office, Washington (D.C.), 1917–19. At Stanford, 1914–16, and since 1919.

OLMSTED, JAMES MONTROSE DUNCAN, (4) Monterey 673
Acting Assistant Professor of Physiology
(Summer Quarter), Pacific Grove-pg
A.B., Middlebury, 1907; B.A., Oxford, 1911, M.A., 1914; A.M., Harvard, 1918, Ph.D., 1920. Rhodes Scholar at Oxford, 1908–11; Professor of Natural Science, Shorter College, 1912–15; Assistant in Zoology, Harvard University, 1915–17, Austin Teaching Fellow, 1919–20; Associate in Physiology, College of Medicine, University of Illinois, 1920; Assistant Professor of Physiology, University of Toronto, since 1920.

†Olsen, Louis S., (4) PA 478R
Instructor in Public Health (Summer Quarter), 321 Fulton-p
A.B., Stanford University, 1914. Engineering, Stanford University, 1915. Health Officer, Palo Alto (Calif.), since 1917.

†O'Neill, Arthur Aloysius, (123) Park 6916
Assistant Clinical Professor of Medicine (Pediatrics), 100 Dolores, SF-sf
M.D., Cooper Medical College, 1891. Assistant Surgeon, Cooper Medical College Clinic, 1893; Assistant in Diseases of the Skin, San Francisco Polyclinic, since 1902; in charge of Isolation and Plague Hospitals, 1907–10, of Isolation Hospital, 1912. At Stanford since 1913.

Ophüls, Louise, (1234) Fillmore 2461
Librarian, Lane Medical Library, 2211 California, SF-sf
At Stanford since 1910.

†Ophüls, William, (1234) Walnut 1741
Dean of the Medical School, and Professor of Pathology, 2398 Sacramento, SF-sf
M.D., University of Göttingen, 1895. Assistant at the Pathologic Institute at Göttingen, 1896–97; Professor of Pathology and Bacteriology, University of Missouri, 1897–98; Professor of Pathology and Bacteriology, Cooper Medical College, 1898–1912; Pathologist, Lane Hospital, since 1898; Instructor in Pathology, Training School for Military Officers, U.S.A., 1918. At Stanford since 1909.

†Osborne, George Edward, (1234) PA 442W
Professor of Law, 328 Churchill
A.B., California, 1916; LL.B., Harvard, 1919, S.J.D., 1920. Assistant Professor of Law, West Virginia University, 1920–21; Acting Assistant Professor of Law, Stanford University, Summer Quarter, 1921; Assistant Professor of Law, University of Minnesota, 1921–23; Acting Professor of Law, Columbia University, Summer Session, 1923. At Stanford since 1923.

†Owens, William Brownlee, (1234) PA 1170W
Professor of Law, 19 Alvarado
LL.B., Stanford, 1915. At Stanford, 1915–16, and since 1920.

†Palmateer, Theron J., (123) PA 1679J
Teaching Specialist in Machine Shop Practice. 1028 Cowper-p
Apprentice with Sibley & Ware, South Bend (Ind.); Journeyman Machinist, 1896–1905, with R. Hoe & Co., New York, Columbus Machine Works, Columbus (Ohio), Elems Engineering Works, Chicago, Western Gas Engine Works, Mishawaka (Ind.), Webster Iron Works, Bakersfield (Cal.), R. S. Hunkins, San Jose (Cal.). At Stanford since 1904.

Palmer, Caroline Bell, (123) West 6523
Associate Clinical Professor of Surgery (Anæsthetics), 2401 Sacramento, SF-sf
M.D., Cooper Medical College, 1906. Chief Anæsthetist, Lane Hospital, since 1909. At Stanford since 1917.

†Parish, Samuel Bonsall, (123)
Lecturer on California Botany. 1624 Scenic Ave., Berkeley-b
Honorary Curator of the Herbarium, University of California.

†Park, Charles V., (1234) PA 1188W
Assistant Librarian, 1080 Emerson-p
A.B., Stanford, 1909. Certificate, New York Public Library, Library School, 1915. At Stanford since 1909.

Parks, George Sutton, (123) PA 520J
Instructor in Chemistry, 151 Waverley-p
B.S., Washington, 1915, M.S., 1916; Ph.D., California, 1919. Instructor in Chemistry, California Institute of Technology, 1919–20. At Stanford since 1920.

†PEIRCE, GEORGE JAMES, (123) PA 1743J
Professor of Botany and Plant Physiology, 281 Embarcadero
S.B., Harvard, 1890; A.M., and Ph.D., Leipzig, 1894. Assistant in Botany, Harvard University and Radcliffe College, 1890–92; Parker Fellow in Harvard University, studying in Bonn, Leipzig, and Munich, 1892–94; Assistant Professor of Botany, Indiana University, 1895–97; Acting Professor of Botany, University of Wisconsin, second semester, 1910–11. At Stanford since 1897.

PERRY, FRANCES, (123) PA 1580J
Secretary to Dr. C. L. Alsberg, Food Research Institute, 528 Lincoln
A.B., Radcliffe, 1911. At Stanford since 1919.

†PETTIGREW, MOSES W., (1234) PA 612M
Assistant Professor of Military Science and Tactics, 1060 High
Student, Utah State School of Mines, 1914–17. At Stanford since July 1, 1924.

†PETTIT, ALBERT VICTOR, (1234) Fillmore 7232
Instructor in Obstetrics and Gynecology, 1169 Bay, SF-sf
A.B., Stanford, 1915, M.D., 1919. At Stanford since 1920.

†PIERSON, PHILIP HALE, (1234) Pacific 7907
Assistant Clinical Professor of Medicine (Tuberculosis), 734 12th Ave., SF-sf
A.B., Yale, 1908; M.D., Harvard, 1913. House Officer, Massachusetts General Hospital, 1914–15. At Stanford since 1916.

†POWELL, HERBERT HARRY, (3) Franklin 1941
Lecturer in Semitic Languages, 1051 Taylor, SF-sf
Ph.B., Taylor, 1898; A.M., Columbian (now George Washington), 1901; B.D., Virginia Theological Seminary, 1901; Ph.D., California, 1905; D.D., General Theological Seminary, 1912. Professor of Old Testament Languages and History, Church Divinity School of the Pacific, 1900–08, Theology and Apologetics, since 1908, Dean, since 1903; Lecturer in Semitic Languages, University of California, 1919–20. At Stanford since 1925.

†PRICE, GEORGE CLINTON, (123) PA 1053
Professor of Zoology, 5 Alvarado
B.S., De Pauw, 1890; Ph.D., Stanford, 1897. Student in Biology, Johns Hopkins University, 1890–92; University of Munich, 1895–96. At Stanford since 1892.

†PRICE, MERTON JAMES, (123) Douglas 6440
Clinical Instructor in Surgery (Otology, Rhinology, Laryngology), 1211 Flood Bldg., SF-sf
A.B., Stanford, 1913, M.D., 1916. St. Luke's Hospital, 1916–17; Lieut., M.C., U.S.N., 1917–19; Assistant in Otology and Laryngology, U. S. Naval Hospital, N.Y., 1918–19. At Stanford since 1919.

†PROCTOR, WILLIAM MARTIN, (1234) PA 1061J
Associate Professor of Education, 7 Dolores
A.B., Whitman, 1901; A.M., Stanford, 1916, Ph.D., 1919. Teacher of History and Civics, Cheney (Wash.) State Normal School, 1909–10; Professor of Education, Pacific University, Forest Grove, Oregon, 1911–15, Dean of Faculty, 1914–15; Instructor in Education, Harvard Summer Session, 1922. At Stanford since 1916.

PUTNAM, DOROTHY, (1234) PA 1279W
Secretary, School of Education, 625 Guinda
A.B., Stanford, 1916. Assistant in History, Stanford University, 1916–17. At Stanford since 1916.

†RAKESTRAW, NORRIS WATSON, (234) PA 1141J
Instructor in Chemistry, 677 Melville-p
A.B., Stanford, 1916, A.M., 1917, Ph.D., 1921. At Stanford since 1919.

†Read, Jay Marion, (123) Walnut 1416
Clinical Instructor in Medicine, 1735 Grove, SF-sf
B.S., California, 1912, M.S., 1913; M.D., Stanford, 1915. Assistant, Medical Clinic, Stanford Service, San Francisco Hospital, since 1916; Captain, M.R.C., U.S.A., 1917–19.

†Reed, Alfred Cummings, (1234) Bayview 841
Associate Clinical Professor of Medicine, 751 14th Ave., SF-sf
A.B., Pomona, 1906; M.D., Bellevue Medical College, 1910. Instructor in Pharmacology, Bellevue Medical College, 1910–11; Assistant Surgeon, U. S. Public Health Service, 1911–13; Attending Physician, Yale Hospital, Changsha, China, 1913–15; Lieutenant, M.C., U.S.N.R.F., 1917–19; Chief of Medical Service, Mare Island Naval Hospital, 1918–19; Editor *California State Journal of Medicine,* since 1917. At Stanford since 1916.

Remele, Miriam Frances, (1234) PA 711J
Executive Secretary, Registrar's Office, 367 Addison-p
At Stanford since 1920.

†Rendtorff, Karl Gustav, (234) PA 515R
Professor of German, 30 Alvarado
A.M., Stanford, 1894, Ph.D., 1896. Student, University of Giessen, 1884–85, University of Kiel, 1885–91. At Stanford since 1894.

†Reynolds, Leon Benedict, (123) PA 394R
Professor of Hydraulic and Sanitary Engineering, 853 Middlefield
A.B., Hillsdale, 1906; A.B., Stanford, 1909. Student, Cornell University, 1911–12; Assistant Engineer, Burns & McDonnell, Kansas City, Mo., 1909–11, 1912–19; Member of Firm, Burns & McDonnell Engineering Co., Kansas City (Mo.), 1920–23. At Stanford since 1923.

†Reynolds, Lloyd Robinson, (123) Walnut 619
Clinical Instructor in Surgery (Genito-Urinary), 2762 Filbert, SF-sf
A.B., Stanford, 1915, M.D., 1920. At Stanford since 1921.

†Richtmyer, Floyd Karker, (4)
Acting Professor of Physics (Summer Quarter), [Ithaca, N.Y.]
A.B., Cornell, 1904, Ph.D., 1910. Instructor in Physics, Drexel Institute, 1904–06; Instructor in Physics, Cornell University, 1906–11, Assistant Professor, 1911–18, Professor since 1918; Physicist, U. S. Bureau of Standards, Summer, 1915; Investigator, General Electric Research Laboratory, 1919–20; Lecturer in Physics, University of California, Summer Session, 1923.

†Rigdon, Rufus Lee, (123) Fillmore 2285
Clinical Professor of Surgery (Genito-Urinary), 1617 Broderick, SF-sf
M.D., Cooper Medical College, 1887. Assistant and Instructor in Genito-Urinary Clinic, Cooper Medical College, 1888–98, Associate Professor of Genito-Urinary Surgery and Chief of Genito-Urinary Clinic, 1898–1908, Professor of Genito-Urinary Surgery, 1908–12. At Stanford since 1912.

†Ritter, Arthur John, (123) San Anselmo 8
Lecturer on Mental Deficiency, 'Ross-r
Graduate Teachers' College, Zürich (Switzerland), 1897; Research Assistant, Racial Studies, Johannesburg (South Africa), 1898–1901; Student, Paris, 1902–03; Instructor des Enfants Arrières, Paris, 1904–05; Private Case Work with Feeble-Minded Children, 1906–11; Home School for Nervous and Backward Children, 1912; Lecturer, Department of Criminology, University of California, Summer Session, 1920. At Stanford since 1916.

†Rixford, Emmet, (123) Franklin 5100
Professor of Surgery, 1795 California, SF-sf
B.S., California, 1887; M.D., Cooper Medical College, 1891. Adjunct Professor of Surgery, Cooper Medical College, 1893–98, Professor, 1898–1912;

Visiting Surgeon, Lane Hospital, 1895, City and County Hospital, San Francisco, since 1899; Instructor in Surgery, Training School for Military Officers, U.S.A., 1918. At Stanford since 1909.

†ROBINSON, EDGAR EUGENE, (1234) PA 1511
Professor of American History, 27 Salvatierra
A.B., Wisconsin, 1908, A.M., 1910. Assistant in History, University of Wisconsin, 1908–09, Fellow in American History, 1909–10; Assistant Professor of History, Carleton College, 1910–11; Instructor in History, University of Minnesota, Summer Session, 1912, Resident Lecturer, 1915–16; Assistant Professor of History, University of Michigan, Summer Session, 1916; Assistant Educational Director, S.A.T.C., 1918; Visiting Professor of American History, Yale University, 1919–20. At Stanford since 1911.

†ROGERS, AUSTIN FLINT, (123) PA 1321
Professor of Mineralogy, 15 Salvatierra
A.B., Kansas, 1899, A.M., 1900; Ph.D., Columbia, 1902. Assistant in Mineralogy, University of Kansas, 1898–1900; Assistant Geologist, University Geological Survey of Kansas, 1898–1900, 1903; Fellow in Mineralogy, Columbia University, 1900–02, Tutor in Mineralogy, 1902–05. At Stanford since 1905.

†ROGERS, FREDERICK JOHN, (123) SJ 3438J
Professor of Physics, 550 S. 6th, San Jose
M.S., Cornell, 1891. Instructor in Physics, Cornell University, 1892–1900. At Stanford since 1900.

†ROSS, PERLEY ASON, (123) PA 689J
Associate Professor of Physics, 1830 Cowper-p
A.B., Stanford, 1908, A.M., 1910, Ph.D., 1911. At Stanford since 1908.

†ROTH, ALMON EDWARD, (1234) PA 900L1
Comptroller, Santa Teresa
A.B., Stanford, 1909, J.D., 1912. At Stanford since 1920.

RUSSELL, FRANCES THERESA (Mrs.), (134) PA 1746W
Assistant Professor of English, 4 Lasuen
Ph.B., Iowa, 1895; Ph.D., Columbia, 1920. Teacher in Denison (Ia.) Normal School, 1895–96; Principal, Villisca (Ia.) High School, 1896–98; Graduate Student at Radcliffe College, 1898–99; Teacher in Anamosa (Ia.) High School, 1899–1900. At Stanford since 1905.

†RYAN, HARRIS JOSEPH, (123) PA 1075
Professor of Electrical Engineering, 525 Embarcadero
M.E., Cornell, 1887. With Western Engineering Co., Lincoln (Neb.), 1887–88; Instructor in Physics, Cornell University, 1888–89, Assistant Professor of Electrical Engineering, 1889–92, Associate Professor, 1892–95, Professor, 1895–1905; Judge, Board of Awards, World's Fair, Chicago, 1893; U. S. Government Delegate, International Electrical Congress, St. Louis Exposition, 1904. At Stanford since 1905.

†RYFKOGEL, HENRY ANTHON LEWIS, (123) Valencia 1611
Lecturer on Surgery (S. F. Hospital), 2645 24th St., SF-sf
M.D., California, 1894. Instructor in Anatomy, University of California, 1894–95, Instructor in Clinical Pathology, Medical Department, 1895–1900, Instructor in Bacteriology, 1900–06, in Surgical Pathology, 1906–07; Surgeon, San Francisco Polyclinic, and Visiting Surgeon, St. Francis Hospital, since 1904.

SAMPSON, JOSEPH ABRAHAM, (123) Market 21
Clinical Instructor in Medicine
(Pediatrics), 645 Leavenworth, SF-sf
B.S., California, 1910; M.D., Stanford, 1921. Interne, Lane Hospital, and House Officer, San Francisco Hospital, 1920–21. At Stanford since 1921.

SANDERS, NATHANIEL, (1234) PA 1680
Instructor in Economics, 26 Lasuen
A.B., California, 1898. At Stanford since 1918.

SANFORD, EMMETT REID, (4) PA 635R
Acting Instructor in Accounting (Summer Quarter), 336 Guinda-p
A.B., Montana, 1918. Teacher of Commercial Subjects, St. Joseph (Mo.) H. S., 1904–09; Head of Commercial Department, East H. S., Milwaukee (Wis.), 1909–14; Director of Commercial Work, Missoula (Mont.)H. S., 1914–21; in charge of Accounting Courses, University of Montana, since 1921; Teaching Fellow, University of California School of Commerce, 1924–25.

SANTES, MARIE, (1234) PA 1025
Cataloguer, Hoover War Library, 1 Salvatierra
A.B., Carleton, 1911. High School Teacher, 1911–13; Student, New York State Library School, 1916–18; Temporary Assistant, Newark (N.J.) Free Public Library, summer 1917; Cataloguer, University of Minnesota Library, 1918–23. At Stanford since 1923.

SAPPINGTON, CLARENCE OLDS, (4) Glencourt 5431
Lecturer in Physical Education
(Summer Quarter), 312 Wayne, Oakland-o
A.B., Whitman, 1911; M.D., Stanford, 1918; P.H., Harvard, 1924. Assistant, Harvard School of Public Health, 1923–24.

†SCHALLER, WALTER FRANK, (123) Bayview 150
Clinical Professor of Medicine (Neurology), 164 Sea Cliff, SF-sf
M.D., Cooper Medical College, 1902. Assistant in Pathology, Cooper Medical College, 1905–06; Assistant Surgeon, U.S.N., 1906–08; Student in Karlsruhe, Vienna, and Paris, 1909–11; P. A. Surgeon, U.S.N.R.F., June–December, 1917, and since October, 1918. At Stanford since 1911.

†SCHAUPP, KARL LUDWIG, (1234) Fillmore 921
Assistant Clinical Professor of Obstetrics and
Gynecology, 45 Walnut, SF-sf
A.B., Stanford, 1913, M.D., 1916. Senior Interne, Obstetrics and Gynecology, Lane Hospital, 1916–17; Visiting Obstetrician, San Francisco Hospital, since 1918.

†SCHENCK, HUBERT GREGORY, (1234) PA 1964J
Acting Instructor in Geology, 580 Addison-p
A.B., Oregon, 1922, A.M., 1923. Associate in Paleontology, University of California, 1923–24. At Stanford since 1924.

†SCHULTZ, EDWIN WILLIAM, (123) PA 1210
Associate Professor of Bacteriology, 552 Kellogg
B.S., Winona College, 1913; A.B., Michigan, 1914; M.D., Johns Hopkins, 1917. Special Student in Protozoology, School of Hygiene and Public Health, Johns Hopkins University, Autumn Quarter, 1919–20; Fellow in Pathology, Mayo Foundation, Spring and Summer Quarters, 1921–22; Field Director, International Health Board, 1917; Chief of Laboratory, 33d Division, U. S. Army, and Pathologist, Base Hospital No. 42, A.E.F., 1917–18; Chief of Laboratory, A.R.C. Military Hospital No. 9, A.E.F.; Bacteriologist, A.R.C. Commission to Germany, and Chief of Bureau of Medical Research, A.R.C. Commission to Poland, 1918–19; First Lieutenant and Captain, M.C., U.S.A., and Deputy Commissioner (Major, U.S.A.), American Red Cross, 1917–19. At Stanford since 1920.

SCHUSSLER, HERMANN, JR., (123) Franklin 1388
Clinical Instructor in Medicine (Pediatrics), 1800 Franklin, SF-sf
B.S., University of California, 1914; M.D., Harvard Medical School, 1918; Assistant Resident Physician, Barnes Hospital, St. Louis (Mo.), 1920. At Stanford since 1921.

†SCHWARTZ, WILLIAM LEONARD, (123) PA 239W
Instructor in Romanic Languages, 450 Harvard, College Terrace
A.B., Ohio Wesleyan, 1910; A.M., Stanford, 1920. Professor of English, Kagoshima 7th Government College, Japan, 1910–14, Nagasaki Imperial College of Commerce, 1914–19; Professor of French, College of the Pacific, 1919–20. Student, University of Paris, 1921. At Stanford since 1920.

SCOTT, AUSTIN WAKEMAN, (4)
Acting Professor of Law (Summer Quarter), 26 Alvarado
A.B., Rutgers, 1903; LL.B., Harvard, 1909. In practice of the Law, 1909–10; Instructor in Law, Harvard University, 1910, Assistant Professor, 1910–14, Professor, since 1914; Acting Dean, Harvard Law School, 1915–16; Dean, University of Iowa Law School, 1911–12; Acting Professor of Law, University of Chicago, Summer Quarters, 1913, 1915; Cornell University, Summer Session, 1924.

†SEARS, JESSE BRUNDAGE, (234) PA 1762W
Professor of Education, 270 Parkinson-p
A.B., Stanford, 1909; Ph.D., Teachers' College, Columbia, 1920. Student, University of Chicago, Summer Quarter, 1910; Research Scholar, Teachers' College, Columbia University, 1910–11; Instructor in Education, University of Wisconsin, 1909–10; Assistant in Educational Sociology, Teachers' College, Columbia University, Summer Session, 1911. At Stanford since 1911.

SELLARDS, JOHN ARMSTRONG, (1234) PA 2335
Endowment Secretary, 215 Santa Ynez
A.B., Illinois, 1912; A.M., Stanford, 1916. At Stanford, 1916–17, 1919–20, 1922–23, and since 1924.

†SEWALL, EDWARD CECIL, (123) Fillmore 4242
Clinical Professor of Surgery (Otology, Rhinology, Laryngology), 3515 Pacific, SF-sf
A.B., Stanford, 1898; M.D., Cooper Medical College, 1902. Assistant and Instructor in Ophthalmology, Cooper Medical College, 1901–07, Assistant Professor, 1907–09; Student in Freiburg, 1909–10; Associate Professor of Diseases of Eye, Ear, Nose, and Throat, Cooper Medical College, 1910–12. At Stanford since 1912.

†SEWARD, SAMUEL SWAYZE, JR., (124) PA 779W
Associate Professor of English, 262 Kingsley-p
A.B., Columbia, 1896, A.M., 1897. Scholar in Literature, Columbia University, 1896–97, Assistant in Literature, 1897–99; Student, Oxford University, 1899–1900; Acting Professor of English, University of Nevada, 1907; Assistant Professor of English, University of California, Summer Session, 1907, University of Oregon, Summer Session, 1908. At Stanford since 1900.

†SHAFER, GEORGE DANIEL, (34)
Assistant Professor of Physiology, 321 Melville-p
A.B., Indiana, 1900; A.M., Stanford, 1906; Ph.D., Cornell, 1908. Fellow in Entomology and Invertebrate Zoology, Cornell University, 1906–08; Research Assistant, Experiment Station, Michigan Agricultural College, 1908–14, Associate, 1914–17. At Stanford since 1918.

†SHANNON, GEORGE POPE, (123) Redwood 1721F21
Instructor in English, Portola, Redwood City-RFD 1, rc
A.B., Vanderbilt, 1917.

†SHARPE, OTIS ALLEN, (12)
Clinical Instructor in Surgery (Ophthalmology), 749 Taylor, SF-sf
B.S., California, 1912, M.S., 1913; M.D., Stanford, 1916.

†SHEPARDSON, DWIGHT EMERSON, (123) Fillmore 3077
Clinical Instructor in Therapeutics 2511 Sacramento, SF-sf
A.B., Stanford, 1917, M.D., 1921. Resident in Medicine, Lane Hospital, 1922–23. At Stanford since 1922.

†SHEPHERD, HAROLD, (123) PA 2274W
Associate Professor of Law, 453 Webster-p
A.B., Stanford, 1919, J.D., 1922. Associate Professor of Law and Dean of the Law School, University of Wyoming, 1922–23. At Stanford since 1923.

SKOGSBERG, TAGE, (4) Monterey 673
Acting Instructor in Zoology (Summer Quarter), Pacific Grove-pg
A.M., Uppsala, 1912, Ph.D., 1920. Curator, Zoological Institution, Uppsala, 1917–20; Uppsala University Scholar, Musée Oceanographique of Monaca, 1915,

Hopkins Marine Station, 1921; Scientific Assistant, State Fish and Game Commission, 1922; Research Assistant, University of California, since 1923.

†SLOAN, WILLIAM HENRY, (123) PA 1954W2
Associate Professor of Chemistry, Alta Mesa-Box 105, p
A.B., Stanford, 1903, A.M., 1904. Student, University of Leipzig, 1904–05; Assistant Chemist, San Francisco Board of Health, 1905–06. At Stanford, 1903–04, and since 1906.

†SLONAKER, JAMES ROLLIN, (123) PA 451
Assistant Professor of Physiology, 334 Kingsley-p
B.S., Wisconsin, 1893; Ph.D., Clark, 1896. Fellow in Biology, Clark University, 1893–96; with United States Fish Commission, Woods Hole (Mass.), Summer, 1895; Instructor in Zoology, Indiana University, 1896–99, Indiana University, Biological Station, 1896–1900; Assistant Professor of Zoology, Indiana University, 1899–1901; Research Assistant in Neurology, University of Chicago, 1901–02, Associate in Neurology, 1902–03. At Stanford since 1903.

SMITH, CHARLES HERBERT, (123) PA 1680
Instructor in Mechanical Engineering, 5 Stanford Union
A.B., Stanford, 1923, Engineer, 1924. At Stanford since 1924.

†SMITH, EVERETT WALLACE, (23) PA 1041
Associate Professor of English
and Director of Publicity, 12 Alvarado
A.B., Stanford, 1899. At Stanford since 1910.

†SMITH, JAMES PERRIN, (123) PA 1218W
Professor of Paleontology, 1335 Cowper-p
A.B., Wofford College, 1884; A.M., Vanderbilt, 1886; Ph.D., Göttingen, 1892; LL.D., Wofford College, 1916. Assistant Geologist and Chemist, Arkansas Geological Survey, 1887–90; Assistant Geologist, U. S. Geological Survey, 1895–1906, Geologist since 1906. At Stanford since 1892.

SMITH, REED, (4) PA 1365
Acting Professor of English (Summer Quarter), 33 Salvatierra
A.B., Davidson College, 1901; A.M., South Carolina, 1902; A.M., Harvard, 1904, Ph.D., 1909. Professor of English, Alabama Presbyterian College, 1905–07; Adjunct Professor of English, University of South Carolina, 1907–08; Instructor in English, University of Cincinnati, 1909; Professor of English, University of South Carolina, since 1910; Director of Extension, University of South Carolina, 1917–22.

†SMITH, STANLEY ASTREDO, (123) Redwood 285W
Associate Professor of French, 2 Finger, Redwood City-rc
A.B., Stanford, 1903, A.M., 1905. Assistant in Romanic Languages, Stanford University, 1903–04, Instructor, 1904–07; Student, Universities of Paris and Madrid, 1906–07; Instructor in French and Italian, University of Washington, 1907–11; Student, Harvard University, 1911–13, Instructor in Romance Languages, 1912–13; Professor of Romance Languages, Reed College, 1913–14. At Stanford, 1903–07, and since 1914.

SNELL, ELIZABETH BURRITT (Mrs.), (1234) PA 1718R
Appointment Secretary, 1333 Tasso
A.B., Stanford, 1908. At Stanford since 1916.

SNODGRASS, KATHARINE, (1234) PA 1301W
Research Associate, Food Research Institute, 1421 Emerson
A.B., Bryn Mawr, 1915; A.M., Columbia University, 1918. Research Assistant, War Industries Board, 1918–19, Federal Reserve Board, 1919–22; Associate Editor, New York *Journal of Commerce*, 1923. At Stanford since 1924.

†SNYDER, JOHN OTTERBEIN, (123) PA 1081M
Associate Professor of Zoology, 8 Alvarado
A.B., Stanford, 1897, A.M., 1899. Assistant, U. S .Fish Commission, 1897, 1899, 1904, 1915, 1916; Naturalist on U. S. S. "Albatross" engaged in deep sea investigations, 1902, 1906; Expert Ichthyologist, U. S. National Museum, 1914; Fisheries Expert, Fish and Game Commission of California, since 1919. At Stanford since 1897.

SOLALINDE, ANTONIO GARCÍA, (4)
Acting Professor of Romanic Languages
(Summer Quarter) Kingscote
Doctor en Letras, University of Madrid, Professor del Centro de Estudios Históricos de Madrid; secretario de sus cursos para extranjeros; secretario de la Oficina de Relaciones Culturales, del Ministerjo de Estado, de Madrid; Acting Professor of Spanish, Columbia University, Summer Session, 1922; Associate Professor of Spanish, University of Michigan, 1922–23; Acting Professor of Spanish, University of California, Summer Session, 1923; Visiting Professor of Spanish, University of Wisconsin, 1924–25.

†SOMERS, GEORGE BURBANK, (1234) Redwood 1714F2
Clinical Professor of Gynecology, Woodside-Box 110, rc
A.B., Harvard, 1886; M.D., Cooper Medical College, 1888. Chief Surgeon, San Francisco Emergency Hospital, 1891–95; Adjunct to Chair of Gynecology, Cooper Medical College, 1889, Professor of Gynecology, 1901; Gynecologist to Lane Hospital, 1900–12. At Stanford since 1911.

†SPALDING, ALFRED BAKER, (1234) Fillmore 826
Professor of Obstetrics and Gynecology, 2651 Green, SF-sf
A.B., Stanford, 1896; M.D., Columbia, 1900. House Surgeon, General Memorial Hospital, New York, 1900–01; Assistant Resident Physician, Sloane Maternity Hospital, New York, 1901–02; Instructor in Obstetrics, University of California, 1902–05, Assistant Professor, 1905–09, Professor, 1909–12. At Stanford since 1912.

†SPIRO, HARRY, (123) Bayview 153
Assistant Clinical Professor of Medicine, 2255 Lake, SF-sf
Ph.G., California, 1893; M.D., Cooper Medical College, 1904. Instructor in Pharmacology, Cooper Medical College, 1905–07. At Stanford since 1919.

†SPRAGUE, CHARLES MYRON, (1234) PA 2354J
Assistant Director of Intramural Sports, 745 Cowper
A.B., Bowdoin College, 1920. Ensign, U.S. Navy, April 1917–August 1919. Football Coach and Director of Physical Education, Ellensburg (Washington) High School, 1922–24. University of Illinois Coaching School, Summer 1924. At Stanford since 1924.

STANLEY, EDWARD JOHN, (123) PA 544W
Teaching Specialist in Pattern Making, 269 Hawthorne-p
Machinist with Pacific Iron Works, San Francisco, 1879, Blacksmith, 1880, Draughtsman, 1881, Pattern Maker, 1883–86; Third Assistant Engineer, Steamer "Alabama," 1882; Foreman Pattern Maker, Union Iron Works, San Francisco, 1886–1901, 1906. At Stanford since 1901.

STARKS, CHLOE LESLEY (Mrs.), (124) PA 597M
Assistant Professor of Education (Graphic Art), 1115 Ramona-p
At Stanford since 1899.

†STARKS, EDWIN CHAPIN, (123) PA 597M
Assistant Professor of Zoology, 1115 Ramona-p
Assistant in United States Bureau of Biological Survey, 1897–99; Curator of the Museum and Assistant Professor of Zoology, University of Washington, 1899–1900. At Stanford since 1900.

†STEBBINS, HORATIO WARD, (123) PA 316
Associate Professor of Mechanical Engineering, 327 Addison-p
A.B., California, 1899; B.S., Massachusetts Institute of Technology, 1902. Assistant to Engineer of Tests, Southern Pacific Railroad Company, 1902–05; Engineer and Estimator, San Francisco Bridge Company, 1905–13. At Stanford since 1914.

†STEPHENSON, HENRY AUGUSTUS, (123) Franklin 4631
Assistant Clinical Professor of Obstetrics and
Gynecology. 2677 Larkin, SF-sf
A.B., Randolph-Macon College, 1906; M.D., Johns Hopkins Medical School,

1910. Assistant Resident Obstetrician, Johns Hopkins Hospital, 1911–12. Resident Obstetrician, 1912–14; Assistant in Obstetrics, Johns Hopkins Medical School, 1911–12, Instructor, 1912–14. At Stanford since 1914.

†STEVENS, WILLIAM EMERSON, (1234) West 700
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P.D., Philadelphia College of Pharmacy, 1910; M.D., George Washington University, 1916. Captain, Medical Corps, U.S. Army, 1917–22; Clinical Assistant, Department of Dermatology and Syphilis, College of Physicians and Surgeons, Columbia University, 1923–24. At Stanford since 1924.

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B.S., Wisconsin, 1890, M.S., 1892; D.Sc., Michigan, 1897. Fellow in Astronomy, University of Wisconsin, 1890–91, Assistant in Astronomy and Mathematics, 1891–92; Hearst Fellow in Astronomy, University of California (Lick Observatory), 1892–93; Instructor in Astronomy, University of Michigan, 1893–95, 1896–98; Student, Universities of Berlin and Munich, 1895–96; Instructor in Practical Astronomy, University of California, 1898–1903, Lecturer in Astronomy, 1904–07; Astronomer in charge of International Latitude Observatory, 1903–07. At Stanford since 1907.

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A.B., Wesleyan, 1900; A.M., Columbia, 1903; Ph.D., Stanford, 1910. Instructor in History, Barnard School, New York City, 1900–03; Graduate Student, Stanford University, 1903–05; Research Student in Far East, 1906–07; Instructor in Government, Harvard University, 1908–09; Lecturer in Political Science, University of California, Second Semester, 1915–16. At Stanford since 1905.

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Professor of Political Science, 376 Addison
Ph.B., Chicago, 1905. Instructor in English and Civics, Bradley Polytechnic Institute, 1905–06; Fellow in Political Science, University of Chicago, 1908–10, Assistant in Political Science, 1910; Instructor in Politics, Northwestern University, 1910–13; Assistant Chief of Service, Illinois Progressive Service Board, 1913; Instructor in Political Science, University of California, Summer Session, 1915; Special Investigator, U. S. Bureau of Efficiency, 1918, 1920–21. At Stanford since 1913.

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Associate Professor of Physiology, 3 Salvatierra
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WHITE, SARAH GERTRUDE, (1234) Fillmore 9229
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†WILBUR, RAY LYMAN, (1234) PA 46
President of the University, Lagunita Knoll
A.B., Stanford, 1896, A.M., 1897; M.D., Cooper Medical College, 1899; LL.D., California, 1919, Arizona, 1919, Pennsylvania, 1925. Assistant in Physiology, Stanford University, 1894–96, Instructor, 1896–97, Assistant Professor, 1900–03; Lecturer and Demonstrator in Physiology, Cooper Medical College, 1899–1900; Professor of Medicine, and Dean of the Stanford Medical School, 1909–16. At Stanford, 1894–97, 1900–03, and since 1909.

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Professor of Economics, 37 Salvatierra
A.B., Earlham, 1893; Ph.D., Chicago, 1904. Professor of History and Economics, Central College (Mo.), 1904–05; Instructor in Economics, University of Missouri, 1905–06, Assistant Professor, 1906–08; Acting Assistant Professor, University of Chicago, Summer Quarter, 1909; Assistant Professor of Economics and Commerce, Northwestern University, 1909–11, Professor, 1911–12. At Stanford since 1912.

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A.B., Stanford, 1913, A.M., 1914, Ph.D., 1916. Director, California Bureau of Juvenile Research, 1915–23; Psychologist, Los Angeles Diagnostic Clinic and Director, Educational Service Bureau, University of California, Southern Branch, since 1923. At Stanford, Summer Quarters, 1919, 1920, 1921, 1922, 1923.

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ASSISTANTS IN INSTRUCTION AND RESEARCH

Allred, William Lyle, Physics, (23) University Park
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A.B., Toronto, 1914; A.M., Stanford, 1925.

Firestone, Fred, Medicine (Gastro-Intestinal Clinic), (123) (West 5133) 1325 Octavia, SF-sf
B.S., Chicago, 1918; M.D., Rush Medical College, 1920. Interne, Mount Zion Hospital, San Francisco, 1920; Resident Staff, Cook County Hospital, Chicago, 1921–22; Clinical Assistant in Medicine, Mount Zion Hospital, 1922–24.

Follansbee, Ruth, Chemistry, (3) Madroño
A.B., Mills, 1924.

Fulton, Ruth Vivia, Teaching Fellow, Chemistry, (4) 10 Salvatierra
M.A., British Columbia, 1918.

Gieseke, Walter, Germanic Languages, (4) 334 Homer
A.B., Stanford, 1925.

†Glaeser, W. Edward, Medicine (Tuberculosis), (123) (Randolph 6534) 245 Ashton, SF-sf
M.D., Hahnemann (U.C.), 1918. Interne, San Francisco Hospital, 1917–18, Resident Physician, Tuberculosis Department, 1918–19.

†Goldman, Samuel A., Surgery (Genito-Urinary), (123) (Sutter 175) 960 Flood Bldg., SF-sf
M.D., College of Physicians and Surgeons, California, 1907.

†Green, Herlwyn R., Anatomy, (123) 1211 Emerson-p
A.B., Brown, 1897, A.M., 1899; M.D., Pennsylvania, 1903.

Greenwood, Gertrude H. (Mrs.), Research Assistant, Food Research Institute, (1234) Bay Road

†Gwinn, Charles Dudley, Dental Clinic, (123) (Garfield 885) 210 Post, SF-sf
D.D.S., California, 1917. Lieutenant, Dental Corps, U.S.N.R.F., 1917–19; Instructor in Extraction, Dental Department, University of California, since 1919; Visiting Dentist, French Hospital, since 1920. At Stanford since 1922.

†Hall, Ernest Mosiah, Pathology, (123) (West 6352) 2191 Pine, SF-sf
A.B., Brigham Young, 1905; M.S., State College of Washington, 1916.

†Hall, James Hinquong, Medicine, (123) (Market 2006) 1150 Clayton, SF-sf
A.B., Stanford, 1919, M.D., 1922. Resident Ophthalmologist, Peking Union Medical College, 1922–23.

Hanson, Frederic D., Mining, (3) 543 Encina
A.B., Stanford, 1924.

Harger, Donald K., Chemistry, (3) (PA 1390W) 801 Waverley-p
A.B., Stanford, 1925.

Harrington, Charles Henry, Physics, (23) 801 Waverley-p
A.B., Stanford, 1925.

Harter, Doris Irene, Psychology, (12) Manzanita
A.B., Stanford, 1924, A.M., 1925.

Hays, Harford Holmes, English, (123) 825 University-p
A.B., Stanford, 1924.

†Helsley, Gordon Friedrich, Surgery, (123) (Sutter 2306) 291 Geary, SF-sf
A.B., Stanford, 1915, M.D., 1918. Assistant Physician, California State Prison, San Quentin, 1918; Physician, State Prison at Folsom, 1918–20; Surgeon, Celite Products Co., 1920–21; House Physician and Surgeon, Greenpoint Hospital, New York City, 1921–22; Student at Vienna, 1922, at Munich, 1923.

†Henninger, Carl, Romanic Languages, (123) (PA 644) 21 Salvatierra
A.B., Indiana, 1907; A.M., Illinois, 1908.

Henry, Collice, Romanic Languages, (3) Madroño
A.B., California, 1921, A.M., 1922.

Hesthal, Cedric Edward, Physics, (23) 750 Hamilton-p
A.B., Stanford, 1925.

†Hicklin, Maurice, English, (23) 912 Waverley-p
A.B., Missouri, 1910, B.Jr., 1913; A.M., Stanford, 1924.

Hippard, Harriett Amanda, Chemistry, (4) 1432 Webster-p
A.B., Western Reserve, 1924; A.M., Stanford, 1925.

†Hobdy, William Catt, Obstetrics and Gynecology, (3) (Garfield 829) 740 Flood Bldg., SF-sf
B.S., Kentucky, 1893; M.D., Columbia, 1896. House Surgeon and Physician, Patterson General Hospital, 1896–98; U. S. Public Health Service, 1898–1916; Chief Quarantine Officer, San Francisco, 1906–09; Visiting Surgeon, Queens Hospital, Honolulu, 1910–15; Member Territorial Board of Health, Honolulu, 1911–21; Visiting Surgeon, Children's Hospital, Honolulu, 1917–18.

Holbrook, Bernard David, Physics, (123) (PA 1121) 19 Lasuen
A.B., Stanford, 1924, A.M., 1925.

†Hunsberger, Harvey Samuel, Medicine (Radiology), (123)
(Sutter 7358) 391 Sutter, SF-sf
A.B., Olivet, 1911; M.D., Rush Medical College, 1918. Interne, Southern Pacific Hospital, 1918–19; Resident, Mount Zion Hospital, 1919–20; Lieutenant, U.S.N.R.F., since 1922.

Hunt, Grace M. (Mrs.), Medicine (Neurology), (123)
(Merritt 1461) 444 Lakeshore Blvd., Oakland-o
Psychologist, Alameda County Detention Home, since 1917; Psychologist, Neuro-Psychiatric Clinic, Alameda County Public Health Center; sometime Lecturer on Criminology, University of California, Summer Session; sometime Psychologist, Berkeley Dispensary; Psychologist, Clinic at County Jail No. 1, San Francisco.

Jensen, Dortha Williams (Mrs.), Research Assistant (Study of Gifted Children), (34) 418 Florence-p
A.B., Indiana State Normal School, 1922; A.M., Ohio State University, 1925. Assistant in Chemistry, Indiana State Normal School, 1920–22; Instructor in English and Spanish, Straughn (Ind.) H. S., 1922–23; Assistant Principal, Cowan (Ind.) H. S., 1923–24.

Jones, J. Walter, Medicine, (123) (Sutter 376)
635 Butler Bldg., SF-sf
A.B., Stanford, 1913, M.D., 1921.

Kay, Mary Evelyn, Physiology and General Biology, (123)
(PA 1718W) 1341 Tasso-p
A.B., Tulane, 1924.

Kellogg, Leonard Frank, Physics, (12) 25 Sequoia
A.B., Stanford, 1924.

Kendall, Lois Marjorie, Medicine (Physiotherapy), (123)
Stanford Hospital, SF-sf
A.B., Wellesley, 1913, Graduate of Physical Education Department, 1916. Assistant in Physical Education, Emma Willard School, Troy (N.Y.), 1916–17; Director of Physical Education, Russell Sage College, Troy (N.Y.), 1916–20; Assistant in Physical Education, Stanford University, 1920–23.

Kildale, Malcolm B., Geology, (4) Paso Robles-pr
A.B., Stanford, 1921, A.M., 1922.

Knowles, Violet Virginia, Mathematics, (12) Madroño
A.B., Stanford, 1924; A.M., 1925.

Laslett, Herbert R., Psychology, (123) 373 Channing-p
A.B., Kansas, 1918; A.M., Stanford, 1923.

Lum, Donald Dyer, Medicine (Dermatology), (123)
1361 Park, Alameda-a
A.B., California, 1919, A.M., 1920; M.D., Harvard, 1922.

Lynn, Harold Frederic, Geology, (4) Paso Robles-pr
A.B., Stanford, 1924, A.M., 1925.

Lysaght, George William, Economics, (123) 303 Stanford Union
A.B., Stanford, 1924, A.M., 1925.

McClelland, John M., English, (23) Menlo Park-mp
A.B., Stanford, 1924, A.M., 1925.

Magruder, Augustin F., English, (123) 550 Kingsley
B.S., Virginia, 1923.

Marshall, Helen, Psychology and Neuro-Psychiatric Clinic, (1234)
(B 1955W) 1022 Chula Vista, Burlingame-b
A.B., Lake Erie, 1913; A.M., Ohio State, 1918. Research Assistant, Commonwealth Fund, Department of Psychology, Stanford University, 1921–23; Assistant in Psychology and Neuro-Psychiatry Clinic, 1923–24.

Marx, Alberta, Physical Education, (4) (PA 235) 357 Kingsley-p
A.B., Stanford, 1921.

Matson, Theodore Malvin, Electrical Engineering, (23)
319 Stanford Union
A.B., Stanford, 1923, Engineer, 1925.

Meherin, J. Minton, Surgery (San Francisco Hospital), (123)
(Garfield 861) 135 Stockton, SF-sf
M.D., Harvard, 1922. Student, University of California, 1916–19; Interne, San Francisco Hospital, 1922–23.

†Mensor, Merrill C., Orthopedics, (123) (Garfield 4130)
135 Stockton, SF-sf
M.D., California, 1923. Interne, University of California Hospital, 1922–23; Resident Surgeon, Shriners Hospital for Crippled Children, 1923–24; Surgeon, San Francisco Emergency Service, 1924–25; Visiting Orthopedic Surgeon, Mary's Help Hospital, 1924–25.

Michelson, Lewis, Obstetrics and Gynecology, (123)
(Douglas 1068) 1079 Flood Bldg., SF-sf
M.D., Cooper Medical College, 1917. Student, Vienna, 1910–11; Special Worker, Brady Urological Institute, Johns Hopkins University, 1916–17; Director of Bureau of Social Hygiene, California State Board of Health, since 1918. At Stanford since 1917.

Milliken, Margaret F., Research Assistant, Food Research
Institute, (1234) University Park
A.B., Vassar, 1922.

†Mitchell, George Rankin, English, (12) 421 Oberlin, College Terrace
A.B., Stanford, 1923, A.M., 1925.

Morris, Laird M., Medicine, (123) (Bayview 5786) 1016 Lake, SF-sf
M.D., California, 1916.

Morrison, Roland Jackson, English, (23) (PA 662J) 723 Hamilton-p
A.B., Stanford, 1923.

Nicholas, Warren Whittier, Physics, (123) (PA 394J) 458 Channing-p
A.B., Stanford, 1923, A.M., 1924.

Nivon, Georges, Romanic Languages, (23) 610 Cowper-p
A.B., State College of Washington, 1921, A.M., 1921.

O'Connor, Zena C., Field Research Assistant, Study of
Foster Children, (4)

O'Neill, Francis Ignatius, Research Assistant, Bacteriology,
Alexandria Hotel
A.B., Stanford, 1925.

Ostroff, Robert Allison, Surgery, (123) (Douglas 6779)
516 Sutter, SF-sf
A.B., Nevada, 1915; M.D., Stanford, 1919.

Ottinger, Millard R., Medicine (Urology), (23)
(Prospect 1968) 1020 Union, SF-sf
M.D., College of Physicians and Surgeons, San Francisco, 1918.

Parrott, James Clifford, Medicine (Pediatrics), (123)
(Garfield 146) 380 Post, SF-sf
M.D., Stanford, 1920.

Patrick, David Lyall, English, (123) (PA 1680) 9 Stanford Union
A.B., Iowa, 1922.

Peocock, Laura A., Physical Education, (123)
(PA 951J) Castilleja School-p

Perry, Elizabeth, Research Assistant, Food Research Institute, (1234) 528 Lincoln
B.S., Simmons, 1914; A.M., Stanford, 1920.

Presho, N. Elizabeth, Pharmacology, (123) (West 6193) 2548 Fillmore, SF-sf
A.B., Stanford, 1921.

†Quivey, Lynn Arthur, English, (123) 245 Cowper-p
A.B., Nebraska, 1914, A.M., 1915.

Rethwilm, Lorruli Anna, Surgery (Anæsthesia), (123) (West 399) 2217 Webster, SF-sf
A.B., Washington University, 1913; M.D., Stanford, 1917.

Ritchie, Kenneth Sinclair, Chemistry, (12) 554 Encina
A.B., Stanford, 1921, Engineer, 1923.

Robbins, Carl B., Economics, (3) (PA 1562) 431 University-p
A.B., Stanford, 1924, A.M., 1925.

†Robinson, Alfred A., Medicine (Neuro-Psychiatric Clinic), (123) (Garfield 4760) 824–826 Flood Bldg., SF-sf
A.B., Young University, 1901; M.D., Jefferson Medical College, Philadelphia, 1908. Attending Physician, Ogden General Hospital; Chief, Neuropsychology, Dee Memorial Hospital, Ogden, Utah; Neurologist, Latter-day Saints Hospital, Salt Lake City, 1916–18; County Physician, Weber County, Utah, 1913–18; Medical Director, Weber County Hospital, 1913–18; Consulting Neurologist, Relief Home, San Francisco, 1921–22; Assistant, Medicine (Neurology), Stanford, 1921–22.

Rorden, Harry Louis, Applied Mathematics, (4) 54 Sequoia
A.B., Stanford, 1925.

†Rosburg, August Henry, Surgery, (123) (Garfield 974) 720 Flood Bldg., SF-sf
A.B., Iowa, 1909; M.D., Rush Medical College, 1912. Interne at Los Angeles County Hospital, 1912–13; Three-year Fellowship at the Mayo Foundation, 1918–20. At Stanford since 1921.

Rowland, Gilford Glenn, Research Assistant, Political Science, (123) 309 Stanford Union
A.B., Stanford, 1923, J.D., 1925.

†Salomon, Edward, Surgery (Genito-Urinary), (123) (Garfield 6510) 516 Sutter, SF-sf
B.S., California, 1913; M.D., Stanford, 1916.

†Schoonmaker, Guy D., Medicine, (1) Stanford Hospital, SF-sf
B.S., Vanderbilt University, 1913, M.D., 1917. Captain, M.C., U.S.A., 1918.

†Seitz, Roland Peter, Pediatrics, (123) (Pacific 3662) 1924 Cabrillo, SF-sf
A.B., Stanford, 1919, M.D., 1923.

Sheehy, Frank, Surgery, (123) (Garfield 686) 516 Sutter, SF-sf
M.D., San Francisco College of Physicians and Surgeons, 1920. Interne, Stanford Service, San Francisco Hospital, 1920–21, House Officer, 1921–22; Resident Surgeon, San Francisco Hospital, 1922–23.

Shevky, Eshref, Pathology, (4) Summit Ave., Mill Valley-mv
Ph.D., Stanford, 1922.

Simrell, Vivian Earle, English, (123) 1004 Emerson-p
A.B., Cornell, 1924.

Snow, William Boring, Electrical Engineering, (12) 114 Encina
A.B., Stanford, 1923, Engineer, 1925.

†Stadtherr, Edward F., Medicine (Neurology), (123) (Garfield 6775) 540 Flood Bldg., SF-sf
M.D., St. Louis University, Assistant Surgeon, U.S.N., 1917–22, Past Assistant, 1920–21.

Stark, Anna Vaal, Education, (2) (PA 571M) 500 Melville-p
A.B., Stanford, 1917.

Stauf, Ida, Romanic Languages, (123) (PA 1195J) 311 Waverley-p
A.B., Stanford, 1910, A.M., 1912.

Strain, Harold Henry, Chemistry, (1) Mayfield-m
A.B., Stanford, 1923, A.M., 1924.

†Strickler, John P., Surgery, (123) (Sutter 2278) 708 Flood Bldg., SF-sf
A.B., Stanford, 1913, M.D., 1916. First Lieutenant, M.C., U.S.A., 1918–19.

Taber, Louise Everett (Mrs.), Medicine (Skin Clinic), (123) (Sutter 5533) 240 Stockton, SF-sf
A.B., California, 1914; M.D., Stanford, 1920.

†Taylor, Howard Rice, Education, (123) 835 Webster-p
A.B., Pacific University, 1914; A.M., Stanford, 1923.

Templin, Ernest Hall, Romanic Languages, (123) 539 Encina
A.B., Stanford, 1921, A.M., 1921.

Trahern, James William, Physics, (1) 363 Channing-p
A.B., College of the Pacific, 1923.

Turner, Marion Esther, English, (12) (PA 1078) 32 Lasuen
A.B., Stanford, 1924.

†Way, Stuart C., Medicine (Dermatology), (12) (Bayview 7042) 1820 Fulton, SF-sf
B.S., Wake Forest, 1917; M.D., University of Louisville, 1919. Interne, Louisville City Hospital, 1919–20; Graduate Student in Dermatology, Berlin, 1922.

Wells, Harrington, Zoology, (4)
A.B., Stanford, 1923, A.M., 1924.

White, Anne Terry (Mrs.), English, (2) (PA 1129J) 786 Palo Alto Ave.-p
Ph.B., Brown, 1918; A.M., Stanford, 1925.

Williams, Gladys R., Research Assistant, Food Research Institute, (1) (PA 1061W) 34 Lasuen

Wittenberg, Howard E., Economics, (3) Phi Kappa Psi
A.B., Stanford, 1925.

†Woods, Edward K., Dental Clinic, (123) (Humboldt 3241) 4000 Broadway, Oakland-o
D.D.S., California, 1924.

TECHNICAL ASSISTANTS

†Banham, Frank D., Mechanician, Mechanician Shop, (1234) 744 Forest-p

Barrett, Frank C., Anatomy, (1234) (PA 1094W) 359 Emerson-p

Bell, May Kirk (Mrs.), Secretary, Entomology, (1234) (PA 485W) 532 Homer

Bennett, Cassie E. (Mrs.), Secretary, Economics, (1234) 158 Kingsley-p

Berger, Alice R., Chemistry, (1234) 73 N. 6th, San Jose
A.B., Stanford, 1908, A.M., 1913.

Berkowitz, Alexander, Secretary and Technical Assistant to Medical Adviser of Men, (123) (PA 701M) 318 Emerson-p

†Borrow, Sidney W., Physics, (1234) (PA 1739J) 520 Lowell-p

Boulware, Edna, Secretary, Chemistry, (1234) (PA 403J) 170 Bryant-p

Brophy, Mary Winifred, Stenographer-Clerk, Food Research Institute, (1) (PA 598M) 334 High-p

†Bruce, Walter Johnson, Chemistry, (1234) (PA 342W) 415 Florence-p

Corwin, George W., Assistant Mechanician, Mechanician Shop, (34) (PA 782M) 827 Webster-p

Creglow, Loran Andrew, Mining, (123) 315 Stanford Union
A.B., Stanford, 1922, Engineer, 1925.

DeGroot, Alice Roth (Mrs.), Secretary, Roble Gymnasium, (123) (PA 571M) 500 Melville-p
A.B., Stanford, 1924.

Dobbel, Lillian M., Acting Curator, Branner Geological Library, (123) 640 Forest-p
A.B., Stanford, 1924.

Drew, Harvey Linford, Geology, (4) Paso Robles-pr
A.B., Stanford, 1925.

Falkner, Mary, Secretary, English, (23) Cowper Court-p

Ferris, Roxana Stinchfield (Mrs.), Botany, (1234) (PA 1632M) 667 Melville
A.B., Stanford, 1915.

Gonzales, Steve Leroy, Bacteriology, (1234) (SJ 1297) 149 E. Julian, San Jose-sj

Herdman, Dorothy, Secretary Roble Gymnasium, (4) (PA 712) 935 Cowper-p

Huskey, Anne K. (Mrs.), Secretary, Civil Engineering, (1234) (PA 653W) 1376 Emerson

†Ignacio, Frank, Museum, (1234) (PA 1697J) 526 Lowell

James, Willis W., Secretary and Technical Assistant to Medical Adviser of Men, (4) (Pacific 1949) 429 2d Ave., San Francisco-sf

Kay, Mary Evelyn, Secretary, Physiology and General Biology, [Also Assistant in Instruction] 1341 Tasso-p

King, Perry Stanley, Statistical Assistant, Food Research Institute, (1234) 739 Bryant-p

†Lemos, Frank B., Museum, (1234) (PA 2226J) 835 Webster-p

†Lemos, John T., Art Gallery, (1234) (PA 1421W) 627 Seale

Lewis, Gwyneth A., Librarian, Education, (12) 262 Hawthorne
A.B., Whitman, 1923.

Lunsford, Helen Elizabeth, Mechanical Engineering, (1234) (PA 1816) 1036 Bryant-p

Lynn, Harold F., Geology, (3) 181 Tasso-p
A.B., Stanford, 1924, A.M., 1925.

McGinnis, Frank C., Mechanical Engineering, (1234) Oregon and Lewis-p

McKendry, Marion, Secretary, Law, (1234) 201 Santa Ynez

Marx, Alberta, Bacteriology, (123) (PA 255) 357 Kingsley-p
A.B., Stanford, 1921.

Merriam, Katharine, Secretary to Dr. Davis, Food Research Institute, (234) (PA 1025) Madroño

Milthaler, Susanne L. (Mrs.), Anatomy, (1234) (PA 1062W) 245 Ramona-p

Murray, Katherine, Secretary, Psychology, (1234) (PA 1219J) 1011 Fulton-p

Newnan, Gladys, Bacteriology, (1234) Mountain View-mv
A.B., Stanford, 1924.

Oldroyd, Ida Shepard (Mrs.), Curator, Geology, (1234) (PA 198) 10 Alvarado

†Oldroyd, Thomas Shaw, Assistant Curator, Geology, (1234) (PA 198) 10 Alvarado

Paul, Nina, Secretary to Dr. Davis, Food Research Institute, (1) (PA 1364W) 637 Gilman-p

Plant, Catharine M., Secretary, Military Science and Tactics, (1234) (PA 1543M) 426 Waverley

Purviance, Patti Smith (Mrs.), Secretary, Geology, (1234) (PA 1449R) 236 Seale-p

Rose, Karl, Chemistry, (4)

Rowland, Mary A., Secretary, English and Political Science, (1) Madroño

†Scott, Thomas Benjamin, Storekeeper, Chemistry, (1234) Mayfield-m

Stuart, Burton, Physics, (1234) Mayfield-m

Tanner, Hilda V. (Mrs.), Secretary, Mining, (1234) (PA 413) 1111 High-p

†Todd, Edwin Thayer, Mechanical Engineering (Aerodynamic Laboratory), (1234) 635 Homer-p
A.B., Stanford, 1924.

Tyler, Rose T. (Mrs.), Secretary, History, (234) 209 Webster-p

†Uhlman, Walter, Engineer, Mechanical Engineering, (1234) 305 Emerson-p

Wells, Margaret S. (Mrs.), Librarian, Education, (34) (PA 554J) 422 Tasso-p

Woerner, S. Edith, Stenographer, Publicity, (23) 453 Hawthorne-p
A.B., Stanford, 1923.

Wood, F.F., Mining and Metallurgy, (1234) (PA 673R) Portage, Mayfield-m

ASSISTANTS IN ADMINISTRATION

OFFICE OF THE PRESIDENT

†Barker, Chester Wing, Executive Assistant, Appointment Secretary's Office, (1234) (PA 1632J) 1333 Byron-p
A.B., Stanford, 1918.

Beswick, Katherine, Secretary to Dean of Women, (1234) (PA 964M) Menlo Heights
A.B., Stanford, 1923.

Binkley, Frances Williams (Mrs.), Secretary to Dr. Jordan, (1) University Park
A.B., Stanford, 1923.

Boone, Andrew Richmond, Assistant to Director of Publicity, (1234) (PA 1680) 231 Stanford Union
A.B., Stanford, 1924.

Church, Vivienne, Secretary to Dean of Men, (1234) (PA 1466J) 262 Hawthorne-p

Curry, Elizabeth, Assistant, Appointment Secretary's Office, (1234) (PA 1328W) 353 Addison-p

Felter, Edmee O. (Mrs.), Secretary to Dr. Jordan, (3) Mountain View-mv

Jayne, Verona Price (Mrs.), Secretary to Alumni Secretary, (1234) (PA 522M) 1827 Cowper-p
A.B., Stanford, 1918.

Krogh, Kathryn, Assistant, Appointment Secretary's Office, (1234) (PA 1560M) 951 Forest-p

McCumber, Dorothy O. (Mrs.), Secretary to Dr. Jordan, (4) (MV 237J) Mountain View-mv

Owen, Lillian Caroline, Executive Assistant, Appointment Secretary's Office, (1234) (PA 2596M) 15½ Alvarado
A.B., Stanford, 1920.

Ramsey, Agnes Craig (Mrs.), Mimeographer, (1234) 20 Lasuen

Stewart, Jane (Mrs.), Assistant, Appointment Secretary's Office, (1234) (PA 1003) 426 Waverley-p

OFFICE OF THE REGISTRAR

†Cowdery, Karl Montague, Statistician, (1234) 28 Alvarado
A.B., Oberlin, 1915; A.M., Stanford, 1922.

Huston, Margaret (Mrs.), Secretary to Scholarship Committee, (1234) (PA 644) 21 Salvatierra
Ph.B., University of Chicago, 1903.

Remele, Carol, Secretary to Registrar, (1234) 367 Addison-p

Rowland, Mary De, Lower Division, (1234) 1 Salvatierra

Stephenson, Florence May, (1234) (PA 524M) 159 Emerson-p

Todd, Ruth Bentley (Mrs.), (1234) 635 Homer-p

LIBRARY

Belenky, Lucas, Loan Desk, (1234) (PA 260J) 1431 Waverley-p

Boezinger, Lina, Typist, Hoover War Library, (1234) (PA 1289) 431 Channing-p

Broecker, Erika, Cataloguer, (123) (PA 662J) 723 Hamilton-p

Bugge, Elwyn, Assistant, Loan Desk, (34) (PA 119) 318 Lincoln-p

Cook, Edith, Order Division, (1234) Los Altos-la

Dawson, Orcena, Order Division, (4) Los Altos-la

Duff, Margaret Helen, Assistant, Lane Medical Library, (1234) (Randolph 4943) 629 Miramar, SF-sf

Duryea, Helena, Clerical Assistant, (1234) (PA 119) 318 Lincoln-p

Goodall, Jane, Order Division, (123) Stanford University

Hunt, Faye Josephine, Loan Desk, (12) (PA 644) 21 Salvatierra
A.B., Stanford, 1922.

Kelso, Mabel A., Secretary, Hoover War Library, (1234)
151 Melville-p

Lambert, Violet E., Reference Division, (1) (PA 1484M)
O'Connor, Runnymede

Maier, Louise, Typist, Catalogue Division, (34) Mayfield-Box 277, m

Meers, Edith, Reference Division, (1234) (PA 1880W) 1710 Waverley-p

Miles, Bonita E., Cataloguer, (4) (PA 1023) 1 Salvatierra

Minard, Claude, Assistant, Loan Desk, (34) Stanford Union

Mitchell, Willis A., Jr., (12) (PA 1038) 16 Lasuen

Owens, William, Loan Desk, (1234) 1329 Waverley-p

Polanska, Zenaida, Cataloguer, Hoover War Library, (1234)
(PA 1025) 1 Salvatierra

Potter, Margaret, Cataloguer, Lane Medical Library, (1234)
(Oakland 5157) 415 Bellevue, Oakland-o

Ramsey, Anna Frances, Hoover War Library, (12)
(PA 1021J) 20 Lasuen
A.B., Stanford, 1922.

Rensch, E. G. (Mrs.), Loan Desk, (1234) (PA 408R) 554 Hawthorne-p

Rumbek, Lucile, Secretary to the Librarian, (1234)
(PA 548W) 1204 Emerson-p

Scibird, Ruth, Reference Division, (1234) (PA 1025) 1 Salvatierra

Sheldon, Frances Elizabeth, Law Librarian, (1234)
(PA 475) 851 University
A.B., Stanford, 1922, J.D., 1924.

Sloan, Alice, Order Division, (1234) Mountain View-mv

Spaulding, Ruth I., Loan Desk, (1234) (PA 541) 528 Channing-p
A.B., Stanford, 1922.

Spilman, Elizabeth Brewer, Assistant, Hoover War
Library, (1234) (PA 269W) 471 Addison-p
A.B., Stanford, 1922, J.D., 1924.

Steinmetz, Ruth Lolita, Cataloguer, (1234) (PA 463) 1021 Ramona-p
A.B., Stanford, 1922.

Stillson, Grace Elizabeth, Cataloguer, (1234)
(PA 543W) 451 Ruthven-p
A.B., Stanford, 1915.

Tum Suden, Linda, Lane Medical Library, (1234)
(Fillmore 1781) 3008 Clay, SF-sf

Wedel, Marie D. (Mrs.), Reference Division, (1234)
480 Washington, College Terrace

Wickes, Florence L., Reference Librarian, Lane Medical
Library, (1234) (Park 6152) 519 Webster, SF-sf

OFFICE OF THE COMPTROLLER

Accounting Department

(†Erwin, Ernest S., Accountant.)

Clarkin, John, Clerk, (234) 145 Monroe, Redwood City-rc

Hall, Elsie (Mrs.), Private Exchange Operator, (1234) (PA 281J) Box 632, p
†Irvin, D. W., Head Bookkeeper, (1234) 21 Alvarado
Jensen, Marien, Stenographer, (1234) 158 Emerson-p
LaRue, Ethel M., Secretary to Accountant, (1) (PA 2590J) 301 Kipling-p
Levin, Zelma, Bookkeeper, (34) (PA 342W) 415 Florence-p
McHenry, Thorpe, Bookkeeper, (12) (PA 1569M) 744 Cowper-p
†Macko, D. O., Bookkeeper, (34) (PA 342W) 334 Waverley-p
Michelsen, Ella, Secretary to Accountant (234) (PA 524M) 159 Emerson-p
Moscovitz, Pearl, Payroll Clerk, (4) (PA 342W) 415 Florence-p
Rasmussen, Peslita M. (Mrs.), Bookkeeper (1234) 420 Florence-p
†Rathman, G. A., Cost Clerk, (1234) 211 Stanford, College Terrace
Ross, Chester, Bookkeeper, (1234) Stanford University
Smith, Gladys B. (Mrs.), Cashier, (1234) (PA 636) Barker Hotel
†Stone, Charles F., Clerk, Yard Office, (1234) 367 Everett-p
White, Alma B., Bookkeeper, (123) (Burl. 1367J) 1400 Howard, Burlingame
Wiley, Flora M. (Mrs.), Endowment Clerk, (1234) 1111 Greenwood-p

Stanford University Hospital, San Francisco

Caro, Ruth, Cashier, (1234) (Fillmore 4964) 2557 Clay, SF-sf
†Erickson, Einar H., Bookkeeper, (1234) (Pacific 6815) 614 10th Ave., SF-sf
†Griffin, H. E., Night Clerk, (1234) (Bayview 2446) 554 16th Ave., SF-sf
Manor, Eva, Pay Roll Clerk, (1) (Fillmore 3146) 2275 California, SF-sf
Meyers, Virginia, Bookkeeper, (1234) (West 7821) 1050 Post, SF-sf
Murphy, J. J., (1234) (Pacific 2264) 114 St. Roses Ave., SF-sf
Sedgley, J. P., Accountant, (1234) (Berkeley 3769) 3724 Haste, Berkeley-b
Vance, Madeline T., Stenographer, (1234) (Garfield 267) 445 Hugo, SF-sf

Corporation Yard

†Allen, Everett A., Foreman Plumber, (1234) (MP 954) Stanford Park
Button, Roy H., Superintendent of Buildings and Grounds, (1234) (PA 1870J) 812 Forest-p
†Collins, Ralph, Foreman, Garage, (1234) Menlo Park
†Dugan, R. E., Fire Marshal, (123) (PA 1666) 1241 Roosevelt, Redwood City-rc
†McDonnell, J. W., Assistant Superintendent of Buildings and Grounds, (1234) 618 Fulton
Maier, Henry, Landscape Gardener, (234) (B490) 325 Occidental, Burlingame-b

†Schilling, John C., Foreman Carpenter, (123) 1042 Cowper
†Smith, George B., Foreman Painter, (123) 253 Homer-p
Thornton, Joseph, Labor Foreman, (123) Stanford University
†Waterman, Edward H., Chief Engineer, Power House, (123) 567 Lytton-p

Dormitories

†Ayres, Elliott H., Manager, Men's Dormitories, (1234) (PA 1417M) 826 Homer-p
Crawford, Lynn H., Custodian, Sequoia Hall, (123) 3 Sequoia
David, Leon T., Custodian, Stanford Union, (123) (PA 1680) 227 Stanford Union
Ferrante, Peter J., Custodian, Toyon Hall, (23) (PA 2080) 209 Toyon
Otto, Lillian, Assistant House Director, Roble Hall, (1234) (PA 2214) Roble
Spencer, Percival V., Custodian, Branner Hall, (123) (PA 2080) 213 Branner
Stearns, Mary H. (Mrs.), Social Director, Roble Hall, (1234) 153 Roble

Foreman Outside Properties

†Frehe, Fred W., (1234) Stanford University

Purchasing Department

Widman, Fred., Purchasing Agent and Storekeeper, (1234) (West 6193) San Francisco
†Hackenberger, William, Assistant Purchasing Agent and Storekeeper, (1234) (PA 519J) Stanford University
Miller, Ensel B. (Mrs.), Secretary to Purchasing Agent, (1234) (PA 878R) 818 Cowper-p

Purchasing Department, Stanford University Hospitals

Widman, Fred., Purchasing Agent and Storekeeper, (123) (West 6193) San Francisco
Hanley, Rose L., Stenographer, (1234) (Pacific 7570) 2502 McAllister, SF-sf
Suter, Henrietta, Assistant Storekeeper, (1234) (Pacific 7134) 621 11th Ave., SF-sf

University Press

(Friend, Will A., Superintendent)
†Barnes, A. C., Foreman, Composing Room, (1234) 1029 Parkinson-p
†Borsdamm, John, Foreman, Bindery, (1234) 817 Lincoln-p
Goodspeed, Persis Q. (Mrs.), (1234) (PA 1772W) Apt. 19, Cowper Court-p
†Smith, C. B., Foreman, Pressroom, (1234) 1211 Fulton-p

OFFICE OF THE TREASURER

†Blodgett, David P., Office Manager, (1234) 130 Cowper-p
Rogers, Ida C., Stenographer, (1234) 2015 8th, Berkeley-b

BOARD OF ATHLETIC CONTROL

Butler, Mary, Stenographer, (3) 422 Princeton, Mayfield-m
Clark, Donald Francis, Office Manager, (1234) (PA 2392) 1447 Byron-p
A.B., Stanford, 1920.
Denny, Wallace, Trainer, Encina Gymnasium, (1234) 110 Waverley-p
Du Prau, Eunice, Stenographer, (1234) 1004 Emerson-p
Espinosa, Manuel, Office Assistant, (4) (PA 676J) 16 Salvatierra
Kaseberg, Helen, Secretary to Dr. Barrow, (4) Kingscote
A.B., Stanford, 1923.
Liebendorfer, Don E., News Service, (1234) 214 Stanford Union
Loder, Edward, Engineer, (34) (PA 344J) 426 Florence-p
McDonald, E. B., Superintendent of Athletic Fields, (1234) Track House
Melvin, Florence, Secretary to Dr. Barrow, (123) (PA 1078) 32 Lasuen
A.B., Washington State College, 1923.
†Millar, A. E., Cashier, (1234) 175 Park, Mayfield
†Moffitt, George W., Manager, Encina Gymnasium Store, (1234) (PA 1972J) 159 Palo Alto, Mayfield-m
†Oliver, Howard, Accountant, (234) 568 University-p
Stern, Ruth E., Accountant's Stenographer, (123) Kingscote
A.B., Stanford, 1923.
Stevens, Inez, Accountant's Stenographer, (4) (PA 2596J) 926 Cowper-p
†Tussing, Ford M., Manager of Operations, (123) (PA 1535M) 320 Fulton-p
A.B., Stanford, 1924.
Whitten, Eugene T., Office Assistant, (23) Sunnyvale-s
Williams, Mary Ada, Stenographer, (4) (PA 2249R) Stanford University

DINING HALLS

Denmark, Katherine (Mrs.), Bookkeeper, (234) (PA 506) 318 Middlefield-p
Handy, Etta H., Director, (1234) (PA 2101, PA 2335) 215 Santa Ynez
A.B., Washington State College, 1921.
McKinnon, Eva, Assistant Director (Branner Hall), (1234) (PA 644) 21 Salvatierra
Otto, Lillian, Assistant Director (Roble Hall), (1234) (PA 302) Roble
Ricker, Christine, Assistant Director (Stanford Union), (1234) (PA 302) 33 Lasuen
B.S., Simmons, 1917.
Sproule, Annie B., Assistant Director (Encina Hall), (123) (PA 1815) 13 Salvatierra
Thomas, Donald R., Bookkeeper, (1234) (PA 2101, PA 461W) 656 Bryant-p
Towsley, Lillian J. (Mrs.), Cashier, (1234) (PA 461W) 656 Bryant-p

ORGANIZATION

Foundation

STANFORD UNIVERSITY was established under an Act of the California Legislature, approved March 9, 1885. The Founding Grant, executed November 11, 1885, was made public at a meeting of the Board of Trustees, held in San Francisco, November 14, 1885. The cornerstone of the Inner Quadrangle was laid May 14, 1887, and the institution opened to students October 1, 1891.

Nature, Object, and Purpose of the University

"We, Leland Stanford and Jane Lathrop Stanford, husband and wife, grantors, desiring to promote the public welfare by founding, endowing, and having maintained upon our estate known as the Palo Alto Farm, and situated in the Counties of San Mateo and Santa Clara, State of California, United States of America, a university for both sexes, with the colleges, schools, seminaries of learning, mechanical institutes, museums, galleries of art, and all other things necessary and appropriate to a university of high degree, to that end, and for that purpose, do hereby grant," etc.

"And that the trust hereby created may be executed according to the wishes of the grantors and each of them, they do hereby designate the Nature, Object, and Purposes of the Institution hereby founded, to be: Its nature, that of a University, with such seminaries of learning as shall make it of the highest grade, including mechanical institutes, museums, galleries of art, laboratories, and conservatories, together with all things necessary for the study of agriculture in all its branches, and for mechanical training, and the studies and exercises directed to the cultivation and enlargement of the mind; Its object, to qualify students for personal success and direct usefulness in life; Its purpose, to promote the public welfare by exercising an influence in behalf of humanity and civilization, teaching the blessings of liberty regulated by law, and inculcating love and reverence for the great principles of government as derived from the inalienable rights of man to life, liberty, and the pursuit of happiness."

Name of the University

"Since the idea of establishing an institution of this kind for the benefit of mankind came directly and largely from our son and only child, Leland, and in the belief that had he been spared to advise as to the disposition of our estate, he would have desired the devotion of a large

portion thereof to this purpose, we will that for all time to come the institution hereby founded shall bear his name, and shall be known as The Leland Stanford Junior University."

Management and Control of the University

The general management and control of the institution is vested in a Board of Trustees, originally numbering twenty-four, and chosen for life. By the Amending Act of May 31, 1899, the number of trustees was reduced to fifteen, with future elections for a term of ten years. The Board of Trustees fills all vacancies.

Powers and Duties of the Trustees

"The Trustees shall have power and it shall be their duty:

"To appoint a President of the University, who shall not be one of their number, and to remove him at will.

"To fix the salaries of the President, professors, and teachers, and to fix them at such rates as will secure to the University the services of men of the very highest attainments.

"To establish and maintain at such University an educational system which will, if followed, fit the graduate for some useful pursuit, and to this end to cause the pupils, as early as may be, to declare the particular calling which in life they may desire to pursue. . . . .

"To prohibit sectarian instruction, but to have taught in the University the immortality of the soul, the existence of an all-wise and benevolent Creator, and that obedience to His laws is the highest duty of man.

"To have taught in the University the right and advantages of association and coöperation.

"To afford equal facilities and give equal advantages in the University to both sexes.

"The Board of Trustees shall annually report all their proceedings to the person who for the time being shall fill the office of Governor of the State of California, and shall accompany such report with a full account of their financial operation for the preceding year, and with a statement of the financial affairs of the institution."

Powers and Duties of the President

"It shall be the duty of the Trustees to give to the President of the University the following powers:

"To prescribe the duties of the professors and teachers; to remove professors and teachers at will; to prescribe and enforce the course of study and the mode and manner of teaching; such other powers as will enable him to control the educational part of the University to such an

extent that he may justly be held responsible for the course of study therein and for the good conduct and capacity of the professors and teachers."

Amendments to the Founding Grant

A clause in the Founding Grant reserved to the grantors the right to alter, amend, or modify the terms and conditions of the grant in important particulars. Under this provision amendments were made by Mrs. Stanford under date of June 1, 1897, May 31, 1899, March 28, 1902, October 3, 1902, and June 1, 1903. These amendments were concerned mainly with matters of detail, but provided also "that the number of women attending the University as students shall at no time ever exceed five hundred."

An amendment to the Constitution of the State of California, adopted November 6, 1900, "permitted, approved, and confirmed all the trusts, estates, terms, and conditions" of the Founding Grant and of all the deeds, conveyances, and other instruments made and delivered before that date, and authorized the Legislature, under certain conditions, to exempt the property of the University from taxation. Article 13 of the State Constitution, as amended November 3, 1914, exempts from taxation the buildings, grounds (not exceeding one hundred acres), equipment, securities, and income, used exclusively for educational purposes, of any educational institution of collegiate grade not conducted for profit.

The University Faculty

"The Trustees shall constitute the President and professors the faculty of the University, and shall prescribe their powers and duties as such."

Under the Articles of Organization, adopted by the Board of Trustees March 31, 1904, the power and authority of the University Faculty is vested in the Academic Council, consisting of the President of the University, the professors and associate professors, the librarian, the registrar, the academic secretary, such assistant professors as have been upon the roll of the faculty for three years, whether as assistant professors or instructors, and such other officers of the University or members of the teaching staff as the Academic Council may, with the assent of the Board of Trustees, determine.

All general University regulations, statutes, and rules as to matters within the province of the faculty, must be initiated in and passed by the Academic Council. The Academic Council has general power and responsibility for the internal administration of the University, subject to express provisions contained in the Articles of Organization respecting the methods of exercising such powers through the President of the

University, the Advisory Board, the Standing Committees, and the Department Faculties.

The Advisory Board consists of nine members of the rank of professor, one from each of the five department groups, and four chosen without reference to groups. All executive acts of general importance, such as recommendations for appointments, promotions, and dismissals, for the creation of new departments or chairs, etc., must be submitted by the President to the Advisory Board. The Advisory Board is also privileged to make such recommendations to the President, regarding policy, as it may decide by vote to be expedient, but no recommendations for appointments, promotions, or dismissals may originate with the Advisory Board.

The Executive Committee of the Academic Council consists of the president, vice-president, registrar, academic secretary, and two members from each department group elected by the Academic Council. The Executive Committee appoints the Standing Academic Committees of the Council, with the exception of the Graduate Study Committee which is elected by the Council.

The Standing Administrative Committees of the Council are appointed by the President.

The Department Faculties consist of the professors, associate professors, assistant professors, and instructors in the several departments, but only members of the Academic Council have the right to vote. A Department Faculty has direction of the work of instruction in the department and of the internal administration of the department, subject only to such control as is vested in the Board of Trustees, the President of the University, and the Academic Council. The executive head of the Department Faculty is designated annually by the President with the approval of the Advisory Board and of the Board of Trustees.

Departments

The work of the University embraces the following departments, divided into groups for the purpose of elections to the Advisory Board and Executive Committee, as indicated:

(I) Classical Literature, English, Germanic Languages, Romanic Languages; (II) Anatomy, Bacteriology and Experimental Pathology, Botany, Medicine, Physiology, Zoology; (III) Chemistry, Geology, Mathematics, Physics, Psychology; (IV) Economics, Education, History, Law, Philosophy, Political Science; (V) Applied Mathematics, Civil Engineering, Electrical Engineering, Mechanical Engineering, Military Science and Tactics, Mining and Metallurgy.

The Hopkins Marine Station, located at Pacific Grove, on the Bay of Monterey, is a branch of the biological work of the University.

The Food Research Institute was organized in 1921 under grant from the Carnegie Corporation for the purpose of studying the production, distribution, and consumption of food. The Board of Directors consists of Dr. Carl Lucas Alsberg, Dr. Joseph Stancliffe Davis, and Dr. Alonzo Englebert Taylor. The Advisory Committee comprises Mr. Herbert Hoover, Dr. John C. Merriam, Mr. Julius Barnes, Mr. A. R. Howard, Dr. William M. Jardine, Mr. George C. Roeding, Dean Sarah L. Arnold, the President of the Carnegie Corporation, and the President of Stanford University.

The University Year

The University year begins the first of October and is continuous throughout four quarters of approximately eleven weeks each. Any three quarters constitute an academic year. The summer quarter differs from other quarters only as the courses of study in the various departments may be contracted, or expanded, or specialized to meet the needs of a particular constituency; or, as in Physiology and Zoology, where the summer program is transferred to the Hopkins Marine Station at Pacific Grove. The emphasis of the summer quarter is placed on advanced and graduate work.

Location

The seat of the University, except for the advanced and clinical work in Medicine, is at Stanford University, in the Santa Clara Valley, thirty miles southeast of San Francisco, on the Coast Division of the Southern Pacific Railway. The University Trust consists of over seven thousand acres, partly level and partly rising into the foothills of the Santa Cruz Range; about fifteen hundred acres have been set aside as the campus proper. The Bay of San Francisco is about three miles east of the University grounds. Across the bay the Mount Diablo Range rises to a height of over four thousand feet, the Lick Observatory crowning Mount Hamilton, the highest of the range. The Santa Clara Valley is one of the most attractive portions of the State in fertility, in natural beauty, and in the excellence of its climate. In winter the mercury rarely falls below 30 degrees, with an average midday temperature of about 55 degrees. In summer the midday temperature ranges between 60 degrees and 80 degrees, with occasional higher and lower numbers, the average being about 70 degrees; the nights are cool, the usual range being from 50 degrees to 58 degrees. The rainfall, normally about eighteen inches, is chiefly confined to the months from December to April, inclusive.

Buildings

The architectural design of Stanford University, with the detailed plan of the inner quadrangle group, Encina Hall, and the first three engineering buildings, was the work of Mr. Charles Allerton Coolidge, of the firm of Shepley, Rutan, and Coolidge, Boston, Massachusetts. Later architects have followed with modifications the original plan, the distinctive features being preserved.

The central group of buildings, constituting two quadrangles, the one surrounding the other, is an adaptation of the Mission Architecture, and reproduces on an imposing scale the open arches, long colonnades, and red-tile roofing of the old Spanish Missions of California. The Inner Quadrangle consists of twelve one-story buildings and the Memorial Church, connected by a continuous open arcade, and surrounding a court 586 feet long by 246 feet wide, or three and a quarter acres. The buildings are buff sandstone, somewhat varied in color, the stonework of broken ashlar, with rough rock-face, and the roofs covered with red tile.

The fourteen buildings of the Outer Quadrangle are constructed of the same material and in the same general style as the Inner Quadrangle, with open arcades on the outside. The extreme length of the Outer Quadrangle is 894 feet.

The Leland Stanford Junior Museum is situated a quarter of a mile from the Quadrangles, on the west side of the Palo Alto avenue.

The Chemistry Building, located between the Quadrangle and the Museum, consists of two separate structures—the main building and the Physical Chemistry Laboratory.

South of the central Quadrangles are located the workshops of the Engineering departments, experimental laboratories, etc.

Encina, Toyon, and Branner halls, situated east of the Quadrangles, and Sequoia Hall, west of the Quadrangles, are dormitories for men. Encina will normally accommodate four hundred and fifty students; Toyon and Branner each one hundred and fifty, and Sequoia one hundred. The extension of the Stanford Union, completed in 1922, furnishes dormitory accommodations for one hundred men. Roble Hall, situated southwest of the Quadrangles, near Lagunita, is the dormitory for women, and will accommodate two hundred and twenty-six students.

Encina Gymnasium, for men, is a brick building with a frontage of 330 feet, situated north of Encina Hall and near the athletic grounds. There are two main divisions separated by a small court. The drill hall is 120 by 65 feet, with hard maple floor. There are rooms for special exercises, shower and locker rooms in each wing, ample offices, and space for storage and laundry. An outdoor swimming pool 100 by 40 feet is

available to all undergraduate men, and to graduate men upon payment of the prescribed gymnasium fees.

The Basketball Pavilion affords ample quarters for indoor games, with a gallery seating capacity of two thousand.

The Stadium is a bowl-shaped structure built on an earth embankment, and has a seating capacity of 60,000. The field includes a quarter-mile track and 220-yard straightaway.

Roble Gymnasium, for women, is a frame building equipped with apparatus for physical education. An outdoor swimming pool, 75 by 40 feet, is located near the gymnasium. In connection with the pool there are eighteen shower rooms, seventy-two dressing rooms, a laundry and sterilizing plant to care for the swimming suits, and a room for their drying.

The Thomas Welton Stanford Art Gallery, the first building of the second Quadrangle group, contains four galleries designed for the exhibition of paintings and other works of art.

The Library Building is the central unit in the second quadrangle group. The ground floor provides a reading room for books set apart for collateral reading, a department of public documents, and administrative workrooms. On the main floor are the delivery hall, the reference and reading rooms, a browsing room, a periodical room, the card catalogue, and the administrative rooms; on the mezzanine and top floors, a large study room, and smaller rooms of varying sizes for seminary and special research work.

The grounds immediately about the University, constituting the campus proper, have been reserved in part for experimental and ornamental purposes, in part as residence sites for members of the faculty and others who may desire to live on the University campus.

The main buildings of the School of Medicine in San Francisco occupy four fifty-vara lots bounded by Clay, Sacramento, and Webster streets. They consist of the Clinical and Laboratory Building, including Lane Hall, and Lane Hospital—a modern building in brick and stone, with a capacity of one hundred and eighty beds—and the Stanford University Hospital, a concrete structure with a capacity of one hundred and thirty beds. The Lane Medical Library is situated on the corner of Sacramento and Webster streets, opposite the Clinical and Laboratory Building, and the Stanford School of Nursing on Clay Street, opposite the Hospitals. The Library is a fireproof structure of Colusa sandstone, three and a half stories high, with steel stacks accommodating 60,000 volumes.

The Hopkins Marine Station is located on Cabrillo Point, Pacific Grove. A concrete building 40 feet by 80 feet, three stories in height, provides the necessary laboratories, aquarium, storerooms, library, photographic dark rooms, etc.

Clubhouses

The Stanford Union, a clubhouse for men, projected by Herbert C. Hoover of the class of 1895, and built by contributions from students, alumni, faculty, trustees, and friends of the University, is in charge of a Board of Trustees made up of three faculty members, three alumni and three undergraduates, together with the Comptroller, the Dean of Men, and the President of the Associated Students. An additional building, consisting of dining halls, and dormitory accommodations for one hundred men, was completed in 1922.

The Women's Clubhouse provides a social center for the women of the University, with meeting rooms for various University organizations.

The two Union buildings and the Women's Clubhouse are connected by means of cloistered arcades surrounding a court half an acre in extent, with a fountain as the central feature, and diversified by trees, grass, and a variety of flowering shrubs and plants.

ADMISSION TO THE UNIVERSITY

CANDIDATES must present satisfactory recommendations as to personal character and must offer approved credentials as indicated below. Application and other necessary blanks will be furnished by the Registrar on request. For matriculation for a particular quarter it is important that application and complete credentials be presented on or before the dates named below.

General Requirements

for graduate standing

The requirements for graduate standing are fulfilled by graduates of colleges and universities of recognized standing whose credentials evidence ability and promise, and who expect to become candidates for advanced degrees, or for the high school teacher's certificate, or who purpose to pursue regular advanced, professional, or research courses.

The candidate should fill out the application blank furnished by the University and file certificate of degrees taken with certified transcript of college work completed. Personal letters from teachers and others are desired.

for undergraduate standing

1. Scholarship Qualifications.—Fulfillment of minimum requirements implies the completion of a regular four years' high school course or its equivalent. The only prescribed subject is English; but applicants will find it to their advantage to anticipate, in the high school, certain lower division requirements of the University and to offer the following as part of the fifteen units required:

Four units in English;

Three units in a foreign language (or *two units* in each of two foreign languages);

One unit in either Botany, Physiology, Zoology, or General Science;

One unit in either Physics or Chemistry;

One unit in American History (or in American History and Civics).

If looking toward engineering, *one unit* in plane geometry, *two units* in algebra, *one-half unit* in trigonometry, and *one unit* in mechanical drawing.

The maximum entrance credit which will be accepted in typewriting is *one unit;* in physical education or military training (or both combined), *one unit;* in music, *three units* (only one of which may be in vocal or

instrumental technique or both). No unit values are attached to penmanship and spelling.

The scholarship requirements for first-year undergraduate standing are fulfilled *without examination* by duly recommended graduates of approved preparatory schools who present fifteen units of recommending (certificate) grade (including at least two units in English). Such credentials may also be considered acceptable with twelve units of recommending grade (1) provided all of the units of the last two years are of recommending grade and average at least five per cent above recommending grade, or (2) provided the score obtained in the supplementary intelligence examination does not fall below the Stanford median. Where the school does not distinguish between a passing and a recommending (certificate) standard, to be accepted as of recommending grade a subject must be at least five per cent higher than the lowest passing grade. The first part of a continued subject, even if below the recommending standard, may be credited provided the last part is of recommending grade and the average of the two parts is of recommending grade. Subjects below the recommending grade at the time of graduation may be brought to the recommending standard and accepted as such, provided the subject is repeated or reviewed in a regular school session or tested by examination through the College Entrance Examination Board.

Persons of considerable maturity, twenty-one years of age or older, who do not fulfill the scholarship requirements for first-year undergraduate standing, but whose incomplete preparation has been supplemented by practical training and experience of distinct educative value, may also be considered for admission as special students not candidates for a degree (except as provided on page 120).

Candidates from foreign countries who present credentials equivalent to those named and whose command of written and spoken English shall be deemed adequate for purposes of college study, may also be placed in this category.

The scholarship requirements for first-year undergraduate standing are fulfilled *on examination* by duly recommended candidates, whether or not graduates of approved preparatory schools, who have passed (1) the ordinary examinations of the College Entrance Examination Board in subjects (including English) aggregating fifteen units, or (2) the comprehensive examinations in four subjects, under the so-called new plan. Partial fulfillment of requirements without examination (that is, through graduation from approved schools and recommendation on grounds of fitness, but with less than fifteen units of recommending grade), may be supplemented by examination, through the College Entrance Examination

Board, in the subjects necessary to make up the required fifteen units. Question papers are prepared by the College Entrance Examination Board in a limited number of subjects only. Subjects not on the Board's list may be offered for entrance only upon graduation and recommendation from approved schools as provided above. Examinations of the New York Examination Board (Regents' examinations) and of the Minnesota State Board may be accepted in approved subjects passed with a grade at least ten per cent above the lowest passing grade.

Candidates from other colleges and universities, in addition to fulfilling requirements for first-year standing, must present transfer papers showing satisfactory records at the institutions attended.

2. Personal Qualifications.—In addition to scholarship and seriousness of purpose, account is taken of exceptional qualifications of any kind, including force of character, qualities of leadership, influence exerted among schoolmates and associates, and the like.

3. Supplementary Examination ('intelligence test')—A supplementary intelligence examination is taken by all candidates for undergraduate standing. In May, the examination will be given in numerous centers in California, and outside the state wherever satisfactory arrangements for conducting the examination can be made. (See p. 85.) The examination will also be given at the University during the week preceding the October, January, and April matriculation dates.

Admission of Men

There is no restriction upon the number of matriculants in graduate standing, nor in advanced standing where credentials cover full entrance requirements and 80 or more units of college work. Approved candidates in this group are assured of admission at the beginning of any quarter. It should be noted, however, that the number of students who may enroll in Medicine is limited and that fulfillment of pre-medical requirements does not guarantee admission to the School of Medicine.

The number of matriculants in first-year undergraduate standing, together with transfers presenting less than 80 units of college work, is limited to 450 for the autumn quarter and 50 each for the two succeeding quarters. At present no limit (below 450) is placed upon summer matriculants; but matriculation for the summer quarter does not insure registration for any succeeding quarter: summer matriculants in the limited group (if more than 50) will be considered in the same category as other candidates and will receive only the advantage which inheres in superior credentials.

The selection of candidates within the limited group will be made immediately after August 1st, December 20th, March 1st, and June 1st, respectively, for the next succeeding quarter. Selection is made on the basis of superior fitness, taking into account scholarship, personal qualifications, and intelligence scores, preference being given to approved candidates who pass the College Entrance Board examinations with an average grade of 75 or above, and, until January, 1934, to sons of faculty and alumni of the University. Where credentials are otherwise satisfactory, candidates who have failed to take the supplementary intelligence examination because of remoteness from examination centers or for other reasons satisfactory to the Committee, may be provisionally included in the approved list; but such candidates may be denied admission, at the discretion of the Committee, provided the score obtained in the supplementary intelligence examination to be taken just before the beginning of the quarter falls below 50.

Application for admission in October (on blanks to be furnished by the Registrar) should be made as early as May, and for the other quarters a month or more before the beginning of the quarter. There is no advantage in applying earlier than is necessary to fulfill preliminaries and furnish complete credentials before the dates fixed for selection of candidates.

In considering the credentials of upper division candidates (unlimited group), due weight will be given to the supplementary intelligence examination, and matriculation may be denied to any candidate whose score is lower than 50.

Admission of Women

The Founding Grant of the University, as amended by Mrs. Stanford in 1899, directs "that the number of women attending the University as students shall at no time ever exceed five hundred."

The same scholarship and personal qualification standards and requirements apply as in the case of men. High scores in the supplementary intelligence examination will be given due weight, and matriculation may be denied to any candidate whose score in this examination falls below 50.

Under the 500-limit, the number of places open to new women students in October is approximately 140. Of these, 35 are provisionally assigned to approved candidates for graduate standing; 105 to approved candidates for undergraduate standing. Approximately 35 places assigned to new undergraduate women will be filled on the basis of priority of application under the regulations in force prior to February

21, 1921, and until such applications are exhausted. (No applications received later than February 21, 1921, will be considered for this list.) Proportional assignments will be made for the winter and spring quarters.

The selection of undergraduate candidates will be made immediately after July 20th, November 15th, March 1st, and June 1st, respectively, for the next succeeding quarter. Outside of the priority list selection will be made on the basis of superior fitness, preference being given to approved candidates who pass the examinations of the College Entrance Examination Board (old plan or new plan) with an average grade of 75 or above, and, until January, 1927, to daughters of the alumni and of the academic staff; after January, 1927, and until January, 1934, preference will be given to daughters of the alumni and of the academic staff whose qualifications place them among the first one hundred and fifty candidates, chosen on the basis of superior fitness, in any list where one hundred are to be selected (proportional numbers for larger or smaller lists).

The selection of graduate candidates will be made immediately after August 1st, November 15th, March 1st, and June 1st, respectively, on the basis of superior fitness.

Women once admitted to the University will be allowed to continue without further application, so long as scholarship and conduct are satisfactory, and provided they present themselves for registration at the beginning of each quarter on the regularly appointed day (but special restrictions apply to registration for the summer quarter, and to summer matriculants desiring to re-register for succeeding quarters). Places will not be held for women students after the regular registration day, except by permission of the Committee on Registration granted in advance.

The regular lists for the summer quarter will be made up immediately after June 1st, but it is not expected that the number of women in attendance will reach the 500 limit, and all candidates who fulfill requirements are, for the present, assured of admission if present on the regular Registration Day. Matriculation for the summer quarter, however, does not insure registration for any succeeding quarter. Summer matriculants will be considered in the same category as other applicants, and will receive only the advantage which inheres in early application (before February 21, 1921) or superior credentials.

Application for admission in October (on blanks to be furnished by the Registrar) should be made as early as May, and for other quarters at least two months before the beginning of the quarter. There is no

advantage in applying earlier than is necessary to fulfill preliminaries and furnish complete credentials before the date fixed for selection of candidates.

Entrance Units

An entrance unit represents a year's study in any subject in a secondary school, constituting approximately one quarter of a full year's work. In assigning credit values two laboratory, drawing, or practice periods, not requiring additional study or preparation, are regarded as the equivalent of one recitation period. The length of the school year is assumed to be from thirty-six to forty weeks.

Approved Preparatory Schools

Approved Preparatory Schools are schools maintaining full four-years' courses of high school work and accredited (1) by the New England College Entrance Certificate Board, by The North Central Association of Colleges and Secondary Schools, by the Association of Colleges and Secondary Schools of the Southern States, by colleges and universities of recognized standing, or (2) upon inspection undertaken or authorized by the University.

The University records of first-year students will be considered as additional evidence of the standing of preparatory schools and of their good faith and success in meeting the requirements of the University, and such evidence will be made use of in determining as to the continuance of accrediting relations.

Entrance Examinations

In June, beginning the third Monday of the month, entrance examinations conducted by the College Entrance Examination Board are held simultaneously in all parts of the United States (in California, at Stanford, Berkeley, Los Angeles, and other places), and in various foreign countries. In September, beginning the third Monday of the month, comprehensive examinations only are held at the University. (The September question papers are prepared by the College Entrance Examination Board, but the answer books are read and graded by the University.) These examinations may be taken either under the four-subject plan (new plan), or toward the completion of the fifteen units ordinarily required of those entering on examination (old plan), or to supplement deficient credentials from approved schools.

The examination fee in September is $5, and must be paid in advance. Applications, with satisfactory credentials, must be presented not later than the second Monday of the month.

The application for examination in June should be addressed to the College Entrance Examination Board, 431 West 117th Street, New York, N. Y. It should be made upon a blank form to be obtained from the Secretary of the Board upon request.

If the application is received sufficiently early the examination fee will be $9 for candidates examined in the United States and Canada, and $20 for candidates examined elsewhere. The fee, which should accompany the application, should be remitted by postal order, express order, or draft on New York to the order of the College Entrance Examination Board.

Application and fees of candidates who wish to be examined outside of the United States and Canada should reach the Secretary of the Board at least six weeks in advance of the first day of the examinations (that is, for 1925, on or before May 4, 1925).

Applications and fees of candidates who wish to be examined in the United States at points west of the Mississippi River, or in Canada, should be received at least four weeks in advance of the first day of the examinations (that is, for 1925, on or before May 18, 1925).

Applications and fees of candidates who wish to be examined in the United States at points east of the Mississippi River should be received at least three weeks in advance of the first day of the examinations (that is, for 1925, on or before Monday, May 25, 1925).

When the candidate has failed to obtain the required blank form of application for examination, the usual examination fee will be accepted if the fee arrive not later than the specified date accompanied by a memorandum containing the name and address of the candidate, the exact examination center selected, and a list of all the subjects in which he expects to take the Board examinations.

Applications received later than the dates named will be accepted when it is possible to arrange for the admission of the candidates concerned, but only upon the payment of an additional fee.

A list of the places at which examinations are to be held by the Board is published about March 1st of each year. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1st. The designation of the center to which the candidate will go for the examination is regarded as an indispensable part of the candidate's application for examination.

In these examinations the University has designated 60 as the lowest passing grade.

The examination questions set by the Board are published in yearly volumes by Ginn & Co., Boston.

Detailed definitions of the requirements in all examination subjects are given in a circular published annually by the Board. The edition published December 1, 1924, is designated as Document No. 114. Upon request a single copy will be sent to any teacher without charge. In general a charge of twenty cents, which may be remitted in postage, is made. (Address Secretary, College Entrance Examination Board, 431 West 117th Street, New York, N. Y.)

THE COMPREHENSIVE EXAMINATIONS

Applicants who present evidence of satisfactory preparatory work covering not less than fifteen entrance units may fulfill scholarship requirements by passing the comprehensive (new plan) examinations in four subjects, determined as follows:

(1) English (three units);

(2) A foreign language, selected by the candidate (two, three, or four units);

(3) Either Mathematics, or Chemistry, or Physics, selected by the candidate (one, three, or more units);

(4) A fourth subject, selected by the candidate, from the subjects in which examinations are held.

These four examinations must be taken at one time. At least two examinations must cover more than two entrance units each. In each subject selected the examination must cover all the units counted by the candidate toward the required fifteen units of preparatory work.

Comprehensive examinations are offered in the following subjects only: Biology (one unit); Botany (one unit); Chemistry (one unit); English (three units); French (two, three, or four units); German (two, three, or four units); Greek (two or three units); History (Ancient, European, English, American History with or without Civil Government—one or two divisions, one unit in each); Italian (two, three, or four units); Latin (two, three, or four units); Mathematics (three or more units); Physics (one unit); Spanish (two, three, or four units); Zoology (one unit). If taken as an 'old plan,' examination Mathematics may cover any one or more of the following divisions: elementary algebra, plane geometry, solid geometry, trigonometry, advanced algebra.

The examination scheduled for September, 1925, is as follows:

Monday, September 21—English, 9 a.m.; French, 2 p.m.

Tuesday, September 22—Latin, 9 a.m.; History, 2 p.m.

Wednesday, September 23—Elementary Mathematics, 9 a.m.; German, Italian, Spanish, 2 p.m.

Thursday, September 24—Botany, Chemistry, Physics, Zoology, 9 a.m.; Greek, Advanced Mathematics, 2 p.m.

Friday, September 25—Biology, 9 a.m.

SUPPLEMENTARY INTELLIGENCE EXAMINATION

Following is the schedule of examinations for California centers in May, 1925. Unless otherwise indicated the examination will be held in the high school building. A fee of *five dollars* is charged, due at the time of the examination, to cover cost of examination, scoring, and organization of results for use in the educational guidance of students. Examinations will begin at 8:30 a.m. and 1 p.m. respectively.

San Francisco.....Saturday, May 2, a.m.
(Lowell High School)
Eureka .....Monday, May 4, a.m.
Ukiah .....Tuesday, May 5, a.m.
(New Grammar School Bldg.)
Santa Rosa.....Wednesday, May 6, a.m.
Napa .....Thursday, May 7, a.m.
Stockton .....Friday, May 8, p.m.
Sacramento .....Saturday, May 9, a.m.
Red Bluff .....Monday, May 11, a.m.
Chico .....Tuesday, May 12, a.m.
Marysville .....Wednesday, May 13, a.m.
Oakland .....Saturday, May 16, a.m.
San Jose .....Saturday, May 23, a.m.

Modesto .....Monday, May 4, a.m.
Fresno .....Tuesday, May 5, a.m.
Visalia .....Wednesday, May 6, a.m.
Bakersfield .....Thursday, May 7, a.m.
Pasadena .....Friday, May 8, p.m.
(Horace Mann Bldg.)

San Diego .....Saturday, May 9, p.m.
El Centro .....Monday, May 11, a.m.
Colton .....Tuesday, May 12, p.m.
Pomona .....Wednesday, May 13, a.m.
Santa Ana .....Thursday, May 14, a.m
Hollywood .....Friday, May 15, p.m.
Los Angeles .....Saturday, May 16, a.m.
(Polytechnic High School)
Long Beach .....Monday, May 18, a.m.
Santa Monica.....Tuesday, May 19, a.m.
Ventura .....Wednesday, May 20, a.m.
Ojai .....Thursday, May 21, p.m.
(Thacher School)
Santa Barbara .....Friday, May 22, a.m.
San Luis Obispo..Saturday, May 23, a.m.
Santa Cruz .....Monday, May 25, a.m.
Salinas .....Tuesday, May 26, a.m.
Monterey .....Wednesday, May 27, a.m.
Stanford Univ.....Saturday, May 30, a.m.

Entrance Subjects

The standard of preparation is the four years' high school course. The proper coördination of high school subjects for the individual pupil is regarded as primarily a problem for the secondary school; the University is prepared to recognize for entrance credit any subject having an established place in the secondary school curriculum, in which adequate instruction is given and which is pursued to satisfactory results.

All Lower Division students (except students coming from other institutions with satisfactory credit in a college composition course) will be required to satisfy the University standard in English Composition. This may be done by passing a special matriculation test given during matriculation week. The examination will test the candidate's practical knowledge of spelling, punctuation, and sentence structure, and

his ability to think consecutively on a simple subject. The subjects which are set at the time of the examination will be drawn for the most part from the candidate's own experiences.

A student who does not pass will be required to register in English A at the earliest available opportunity, and remain in the course until his work is of passing grade.

Definition of High School Subjects

The definition of high school subjects given by the College Entrance Examination Board (Document No. 114, issued by the Board) will serve as a standard. The following suggestions and explanations indicate the attitude of the University in judging entrance credentials, but no attempt is made to enumerate all the subjects which may be properly included in the high school curriculum:

1. English.—The primary aim of instruction in English Composition in the secondary schools is clearness. Based upon grammatical correctness, which is the peculiar goal of elementary English Composition, this is the quality by which the Stanford matriculation test is rated. To attain these aims there should be a definite coöperation of the entire staff of the school.

The work in English Composition should be given at least two recitations a week throughout the entire high school course. The greater part of the student's time outside of class should be devoted to practice in writing, but it is recommended that some attention be also paid to instruction in the fundamental principles of formal rhetoric.

The work in English Literature should be given an average of at least three recitations a week throughout the four years of the preparatory course. It should be so conducted as to give the student not only an appreciative understanding of the books selected either for general or for more intensive study, but also a knowledge of their place in the history of English Literature, together with an ability to read aloud intelligently both prose and verse.

In the History of English Literature preparation should consist in a brief outline with a view to making clear the character and the tendencies of the more important literary epochs and associating the chief books and authors in their proper periods.

2. Mathematics.—The work in Mathematics is usually distributed as indicated by the following unit values: algebra (1 to 2), plane geometry (1), solid geometry (½), trigonometry (½). Additional work may be offered in algebra and plane analytical geometry. The solution of numerous original problems and exercises is assumed throughout the course.

3. The Sciences.—In Physics, Chemistry, Physiology, Botany, Zoology, Hygiene, and General Science a full year's work in each is expected, comprising, preferably, two recitation periods and three double laboratory periods per week. Accurate notes of the laboratory work should be kept. Any two of the biological sciences (Physiology, Botany, Zoology) may be combined into a continuous year's course. Astronomy may be offered as a half-unit course.

Students who receive entrance credit in Chemistry, and who wish to continue the subject in the University, will be admitted at once to laboratory course 4 and will be required to begin lecture course 1.

In Physiology the textbook work should be accompanied by experiment, dissection of animals and organs, and a certain amount of study of the tissues with the microscope.

In Botany the main thing is that the work shall be of a practical nature: the study mainly specimens and not books. A study of the growth and development of the forms selected is of the highest importance, and should be made a prominent feature in the work. If possible, the pupil should be allowed the use of a compound microscope, but when this is not practicable, microscopic demonstrations by the instructor are indispensable.

In Hygiene the work should include adequate instruction in personal hygiene, the hygiene of occupation, and the relation of the citizen to the State in matters of sanitation and public health. Three periods per week of physical training and three periods in experimental laboratory work in Hygiene, and two recitations per week on Public Health, or an equivalent amount of work distributed over a longer period, will cover the requirements for one unit of credit.

4. History and Allied Subjects.—History should be offered in full unit courses covering respectively the following divisions: (*a*) Ancient, (*b*) European (either Medieval and Modern or Modern European, (*c*) English, (*d*) American. Civics may be offered as a part of American History, or as an additional half-unit course. Biblical History and Literature and Economics may each be offered as a half-unit or a unit course.

In the History subjects, in addition to the textbook preparation, the following exercises are recommended: Supplementary reading, including the use of original material where possible, notes and digests of reading; abstracts or analyses of specified chapters, both of the textbook and supplementary reading; outlines of subjects, gathering material from all available sources; map drawing from printed data or comparison of

existing maps, showing movements of exploration, migration or conquest, territorial changes, or social phenomena. Such work should be regarded as a means rather than the end of historical study, and in every instance should be adapted in character and amount to the stage of advancement of the class and of the individual pupil. As the pupil progresses in his study, more advanced work may well be required in the form of historical composition and of note taking in the class from talks by the teacher or reports of fellow pupils.

5–6. Spanish and French.—The elementary study of the languages covering two years of daily recitations, should lay stress on the following points: (1) An accurate knowledge of the forms of the languages; (2) the elements of syntax; (3) the ability to turn easy English prose into French or Spanish; (4) the ability to translate ordinary French or Spanish into idiomatic English; (5) the ability to pronounce French and Spanish correctly.

(Students who have had one year of French in the high school and present one unit of credit for entrance into the University may take course A2. Those who have had one year of Spanish in the high school and present one unit of credit for entrance may take course B2. Those who have had two years of French or Spanish in the high school, and present two units of credit for entrance, may take second-year work in the University.)

The intermediate requirements are intended to represent a third year of daily recitations. The specific demands are: (1) A thorough knowledge of modern French and Spanish syntax; (2) the ability to turn ordinary modern French and Spanish at sight into idiomatic English; (3) the ability to translate connected English prose of modern difficulty into French or Spanish; (4) the ability to write French or Spanish from dictation; (5) some facility in speaking the languages.

(Students who have had three years of French in the high school, and present three units of credit for entrance into the University, will ordinarily take course A22. Courses A24 and A30 are also open to them. Students who have had three years of Spanish in high school, and present three units of credit for entrance into the University, will ordinarily take course B22. Course B30 is also open to them.)

The advanced requirements will occupy a fourth year of daily recitations.

At the end of this course the student should be able: (1) To read at sight any standard author not earlier than the seventeenth century; (2) to write in French or Spanish a short essay on some simple subject connected with the works read; (3) to translate correctly a passage of

modern English prose; (4) to carry on a simple conversation in French or Spanish; (5) to follow a lecture in French or Spanish.

The reading in the elementary course should cover from four hundred to six hundred duodecimo pages; in the intermediate course a similar amount should be read of prose and verse, a portion to be in the dramatic form; and in the advanced course the same quantity of prose and verse should be selected from standard authors not earlier than the seventeenth century, and these should be read with reference to their literary value.

The practice of writing compositions consisting in reproductions or paraphrases of the matter read should be begun in the intermediate course and followed by short themes along similar lines in the advanced course.

7. German.—Elementary German represents the work of two high school years with daily recitations. It should give the following preparation: The ability to read understandingly at sight easy German prose and verse; an accurate knowledge of the most important elements of grammar, embracing especially inflections, word-order, and the essentials of syntax, as also the ability to appreciate the force of prefixes and suffixes; the ability to express in correct German simple ideas concerning familiar things and to recognize German words and simple sentences when spoken. Careful attention should be given to pronunciation and accentuation.

The amount of work to be accomplished in the first year is approximately what is contained in a beginner's book such as Zinnecker's Deutsch für Anfänger, with some additional reading. The reading of the second year should be for the most part graded modern German from 200 to 300 pages. German should be the language of the classroom, instruction in conversation, composition, and grammar being based largely on the reading text.

Intermediate German represents a third year of daily recitations, designed to extend and strengthen the pupil's personal command of the language, and his knowledge of word formation and syntax. Here again the reading matter should be, in large measure, the center of the instruction, and some attention should be paid to literary appreciation.

Advanced German represents a fourth year of daily recitations. Besides rounding out the pupil's knowledge of grammar, and increasing his facility in speaking and writing, this course should make considerable addition to his passive vocabulary and develop his literary appreciation. It would be advisable to choose most of the reading from the works of recent or contemporary writers, but some work or works of Lessing, Goethe, and Schiller should be studied intensively, while others might be assigned for outside reading and report.

8. Latin.—The reading required in elementary and advanced Latin (4 units) without regard to the prescription of particular authors and works, is not less *in amount* than Caesar, Gallic War, I–IV; Cicero, the orations against Catiline, for the Manilian Law, and for Archias; Virgil, Aeneid, I–VI. An equivalent amount of reading from authors other than those specified above may be substituted. The following are suggested: Caesar, Civil War; Eutropius; Nepos; Terence; Phormio; Cicero, Letters; Sallust; Virgil, Bucolics and Georgics; Ovid, Metamorphoses.

Exercises in translation at sight should begin in school with the first lessons in which Latin sentences of any length occur, and should continue throughout the course with sufficient frequency to insure correct methods of work on the part of the student. From the outset particular attention should be given to developing the ability to take in the meaning of each word—and so, gradually, of the whole sentence—as it stands; the sentence should be read and understood in the order of the original, with full appreciation of the force of each word as it comes, so far as this can be known or inferred from that which has preceded and from the form and position of the word itself. The habit of reading in this way should be encouraged and cultivated as the best preparation for all the translating that the student has to do. No translation, however, should be a mechanical metaphrase. Nor should it be a mere loose paraphrase. The full meaning of the passage to be translated, gathered in the way described above, should finally be expressed in clear and natural English.

The school work in Latin should include much reading aloud, writing from dictation, and translation from the teachers' reading. Learning suitable passages by heart is also very useful, and should be practiced.

The work in composition should give the student a better understanding of the Latin he is reading at the time, if it is prose, and greater facility in reading. It is desirable, however, that there should be systematic and regular work in composition during the time in which poetry is read as well; for this work the prose authors already studied should be used as models.

9. Greek.—In elementary Greek (2 units) the following requirements should be covered: Grammar, the inflections, and the essential points of syntax; Xenophon's Anabasis, Books I–IV, or an equivalent; prose composition. It is expected of every pupil that he be able to read Greek aloud without stumbling.

In Advanced Greek (1 unit): Homer, Iliad, Books I–III, or an equivalent; advanced prose composition. The pupil should have a good

acquaintance with the forms and syntax of Homer, and be able to scan any given passage exactly and to read it rhythmically. In the writing of Greek the pupil should have a year's training beyond that required in Elementary Greek.

10. Drawing and Applied Art.—In each of the drawing subjects (Freehand, Mechanical, and Architectural) a unit of credit represents daily double periods for a year or single periods for two years.

In Freehand Drawing approximately two-thirds of the time should be given to representation and one-third to decorative and constructive design. *Representation* should include: Object drawing, boxes, books, bowls, vegetables, machine parts, drawn in various positions with attention to perspective facts in line and also to light and shade; plant forms, seed pods, shells, insects, animals, and simple landscape, drawn in line, in light and shade, and in color; composition, exercises in arrangement and adaptation of pictorial subjects into good composition, using both rhythmic line arrangement and harmonious color. The style of drawing should be direct, facile, and effective, adapted to the thing drawn, with refinement in its proper place and vigor in its proper place. The pupil should be equally familiar with the use of pencil and charcoal or brush. *Design* should include (1) exercises in space filling, borders and all-over patterns with use of geometric and organic forms; (2) principles of constructive and decorative design applied to simple objects, such as, in printing, a title-page or program; in textiles, a stencil or embroidery design for a curtain or table-scarf; in wood, working drawings for a chair, table, clock-case, bookrack, etc.; in metal, cabinet hardware and lighting fixtures, etc. Talks supplemented by photographs of the best paintings and architecture, and talks upon taste in home furnishing and appointments, with visits to worthy examples, should supplement the course with a view to developing an enlightened taste in art.

In Mechanical Drawing the pupil is expected to acquire neatness and accuracy in the use of drawing instruments. This course should include practice in line work, lettering, machine or architectural working drawings, and tracing. Recognition, commensurate with the length of course and the degree of proficiency attained in the use of instruments, will be given, however, to courses consisting of line work, lettering, and the construction of geometric figures.

11. Shopwork.—Two things are expected: First, a knowledge of the materials and tools used, and a thorough understanding of the principles involved in the operation performed; second, manual dexterity, as evidenced by neatness, accuracy, and dispatch in the execution of a given piece of work.

Woodworking (½ unit) demands the ability to recognize the common varieties of wood, and some knowledge of their physical properties, such as ease of working, strength, toughness, hardness, etc., is expected. The pupil should be familiar with the uses of the principal hand tools of carpentry, and, with care, be able to make the ordinary kinds of joints and splices, and be familiar with the operation of lathe, jig-, band-, and circular-saws, and planing machines.

Forge Work (½ unit) demands an elementary knowledge of the properties of wrought iron and steel, and of the proper heats at which to work them. The management of the forge and fire and the nature and uses of all the ordinary blacksmithing tools should be known. The pupil should be able to execute all of the common forging processes, including the various forms of welds in iron and steel; he is also expected to understand hardening, tempering, and annealing.

Foundry Work (½ unit) demands a knowledge (1) of the tools and processes used in the ordinary forms of green sand molding and core work; (2) of the properties of cast iron, and experience in pouring cast iron as well as in moulding. The pupil should have had practice in charging and operating the cupola.

Machine Shop Work (½ to 1 unit) demands a knowledge of the tools and processes used in the working of iron, steel, and brass. The pupil should be able to execute all forms of vise-work, such as chipping, filing, scraping, fitting, and finishing. He should be familiar, through experience in operation, with the simpler forms of machine tools, such as the lathe, drilling machine, planer, shaper, and milling machine.

12–15. Agriculture, Horticulture, Domestic Science, Commercial Subjects, Music.—The outline prepared by the University of California is suggested.

FEES, EXPENSES, AND AID FUNDS

Tuition and Incidental Fees

THE Tuition Fee for undergraduates in all departments (except Medicine) is $75 per quarter.

The Incidental Fee for undergraduates (except in Medicine) is $20 per quarter. Students paying this fee have the privileges of the gymnasia, athletic grounds, Guild, and Stanford Union or Women's Clubhouse, with membership in the Associated Students, without further quarterly fees. There is also a Pavilion fee of $1 per quarter assessed upon all undergraduates by the Associated Students.

The Tuition Fee for regular graduate students, except in the departments of Law and Medicine, is $50 per quarter. The Tuition Fee for graduate students in Law is $65 per quarter. The Guild Fee for graduate students is $2 per quarter. Graduate students may have the privileges of the gymnasia and athletic grounds ($5), Stanford Union or Women's Clubhouse ($1), with membership in the Associated Students ($2), upon paying the quarterly fees.

The Tuition Fee for all students (graduate and undergraduate) in the School of Medicine is $85 per quarter; the Hospital Fee, $2 per quarter. Medical students desiring membership in the Stanford Union, Women's Clubhouse, or Associated Students, or the use of the gymnasia and athletic grounds, will pay the usual fees designated for these purposes. A deposit to cover breakage or loss of apparatus and materials may be required in any department, such deposits being returnable, less charge for breakage, loss, or wear and tear of apparatus. The total deposits for this purpose may vary from $10 to $20 per annum.

Students who have paid the regular fees of the Medical School in full and who wish to take additional work before graduation, will pay for this additional work such fees as are decided upon in conference with the Dean and the Executive Head of the department in which such courses are taken.

The General Fee at the Hopkins Marine Station (covering all charges) is $75 per quarter for undergraduates and $50 for graduates.

In addition to the above fees students in laboratory courses pay for the materials which they use, and in some courses small syllabus and other fees may be charged.

(Tuition and incidental fees are ordinarily returnable, when duly claimed in writing, within two months after the date of withdrawal from

the University, as follows: Two-thirds of the incidental fee and the whole of the tuition fee will be refunded when the student withdraws within two weeks after the date of registration; one-half of the incidental fee and two-thirds of the tuition fee when the student withdraws at a later time, but within four weeks after the date of registration. Laboratory fees (except in Chemistry, where a different procedure is applicable) are likewise returnable when duly claimed in writing within two months after the date of withdrawal from the University, as follows: The whole amount will be refunded when the student withdraws within one week of the beginning of a quarter, and one-half the amount if the student withdraws before the middle of a quarter; but no fees will be refunded on account of withdrawal after the middle of a quarter, nor unless claimed in writing within two months after the date of withdrawal.

A Diploma Fee of $5 is charged all persons receiving degrees from the University.

Cost of Living

There are five dormitories for men (Branner, Encina, Toyon, and Sequoia Halls, and the Stanford Union) and one for women (Roble Hall).

Undergraduate men, not living with parents or guardians, are expected to room in the dormitories. Entering Lower Division men are required to live at Encina Hall for the first three quarters in the University. Rooms in the Union are available preferably for graduates, "holdovers," and seniors. Application for room assignment should be made to the Dean of Men several weeks in advance of the opening of the quarter, and should be accompanied by a deposit fee of $5. Men students not rooming in the dormitories may live only in places approved by the University (consult the Dean of Men). Rooms in the dormitories cost from $18.50 to $36 per quarter (average cost $24 per quarter), payable at the beginning of each quarter. Students living in the dormitories are expected to supply their own linen and bedding for standard size single beds. Board may be obtained at the Stanford Union, Sequoia Hall, Encina Hall, Branner Hall, and in various clubs, the cost ranging from $30 to $40 per month. Entering Lower Division men who live at Encina Hall are also required to eat there. The cost of board in the Encina dining hall is approximately $30 per month.

In Palo Alto, at an average distance of a mile and a quarter from the University, rooms (for men) can be obtained in private houses at from $12 to $18 per month. Special commutation tickets are issued by the Southern Pacific Company, and students living in towns on the line of the railway, from San Francisco to San Jose, easily go to and from the

University daily. There is also trolley connection with San Jose, Los Gatos, and intermediate towns.

Undergraduate women not living with parents or guardians, are required to reside in Roble Hall for three quarters. (Some modification of this requirement for the succeeding autumn quarter may be made for students entering in the winter and spring quarters.) Women students not residing in Roble Hall may live only in places approved by the University (consult the Dean of Women). Rooms in Roble Hall cost $30 per quarter and board $90 per quarter. Room rent is payable in advance for the quarter; board in advance for the quarter or in two installments ($45 each). Students rooming in the Hall furnish couch covers, bed linen, blankets, towels, bureau scarfs, rugs, and curtains. White curtains are uniform for the Hall and must be purchased of the Matron. (Students in the summer quarter may rent curtains for seventy-five cents for the quarter; a few rugs are also available for rent to summer quarter students.) Applications for rooms in Roble Hall should be made to the Dean of Women and must be accompanied by a deposit of $5. Rooms are assigned in order of application, and early application is advisable.

The cost of living for students of Medicine in San Francisco is about the same as at Stanford University. There are numerous rooming and boarding houses near the medical buildings.

(A guest suite is maintained at the Stanford Union and may be engaged by making reservations in advance. The guest suite, available for men, or man and wife, is composed of a sitting-room, bedroom, and private bath. Rates per night, $3 for one person, $3.50 for two; by the week, $21. Limit of two weeks. Reservations may be made with the Custodian. Additional guest rooms will be added to the Union accommodations as far as the campus housing problem permits and patronage is assured.)

FIXED EXPENSES PER QUARTER

The following is an estimate of the expenses *per quarter,* for undergraduate men, *for the items named:*

	Medium	High
Tuition and Incidental Fees	$ 95.00	$ 95.00
Books, Syllabus Fees, etc.	15.00	30.00
Board	90.00	120.00
Room	18.00	45.00
Incidentals (other than clothing and railway fares)	35.00	50.00
Laundry and clothing	35.00	100.00
Total for the quarter	$228.00	$440.00

Laboratory fees are additional. The cost of board is variable and the estimate given for men is conservative, while a lower cost is possible in coöperative clubs. For women residing in Roble Hall room and board amount to $120 for the quarter. All undergraduates pay also the Pavilion assessment of $1 per quarter.

Self-Support of Students

A considerable number of students find it possible to earn the whole or a part of their expenses while attending the University. Success depends upon the student himself. The University, through the Appointment Secretary's office, and in other ways, is able to help the student both in finding work and in making plans. It cannot, however, assume the responsibility of supplying work for all applicants. The student who combines initiative with industry and reliability, and who is willing to adapt himself to circumstances, is the one who succeeds in this as in other undertakings. As a result of experience it is believed that no properly prepared student who is possessed of good health and who has no dependents need hesitate to undertake a university course because of lack of means; for if he is sufficiently in earnest in his desire to "work his way through," opportunities will not be lacking.

Students who are contemplating earning their own expenses at the University should not register for a heavy course nor attempt to engage in more than one student activity, particularly during their first quarter at the University. (Self-supporting students whose scholarship is high are given preference in the awarding of scholarships.) While working one's way is an education in itself, there are many valuable features of college life that must be foregone if one is earning a living. Students who have the necessary means will do well to devote any energy not needed in their studies to various extra-curricular activities rather than to earning their expenses.

The student is not advised to enter the University without a reserve fund to provide for immediate needs or unexpected contingencies. This fund ordinarily ought to amount to at least $200, although it is preferable for new students to have a larger sum. The student needs time to get acquainted; to become adjusted to University methods and requirements; to systematize his University work; to learn about the various opportunities for earning money; and to discover how much time he can afford to devote to self-support and still make study his main object aside from keeping in good health. In general the student should not undertake to earn a larger proportion of his expenses than is absolutely necessary, for his working time is too valuable for this and should be devoted to his studies to the largest extent possible. It is recommended

that no new student plan to devote more than four hours a day to earning his expenses.

The most ready-to-hand means of earning one's board at the University, whether for men or women, is by waiting on table. From three to four hours per day will cover the required time, which comes when it is least missed. Such chances are to be found in the dormitories, in cafés and boarding houses, and in public and private eating clubs. Other forms of work, for the relatively unskilled, are gardening, housework, care of children, janitor service, special jobs in connection with gymnasium and athletic activities, manual labor in connection with laboratory sections, agencies for laundries and other businesses, etc. Positions requiring more or less preliminary training have to do with plain cooking, clerking, bookkeeping, stenography and typewriting, music for dances, newspaper reporting, printing, tutoring, the management of student enterprises, etc. For advanced students in the various departments there are opportunities to act as assistants in quiz sections, in the reading of examination papers, reports, etc. Laboratory assistants are usually students either in graduate or undergraduate standing, as are also some of the part-time assistants in the various administration offices. Other means of support are found in the scholarships and fellowships offered, and through the considerable loan funds now available. A limited number of opportunities during the short vacations, particularly at Christmas time, can be found in San Francisco and elsewhere, as special postoffice clerks or salesmen in the larger stores.

New students who must begin earning as early as possible, will do well to be on hand a little in advance of the opening of the University and to come equipped with bicycles and working clothes. They should promptly enroll with the Appointment Secretary, Room 170, in the Administration Building. Women should discuss their plans also with the Dean of Women.

Assistantships

Student-assistant positions held by either undergraduates or graduates in the various departments, range in pay from $35 to $150 each per quarter, the average being about $75 per quarter. These assistantships do not include a considerable number of minor positions in laboratories or elsewhere where mere labor without skill or special knowledge is required; nor do they include those positions where the full time of the assistant is demanded.

Each department selects and recommends for appointment its own assistants. Requests for information as to pay and duties, and applications for appointment, should be addressed to the Executive Head of the department in which a position is sought.

Loan Funds

After the first quarter in the University, and in approved cases, students may defer payment of tuition fees by means of promissory notes. Applications should be made to the Dean of Men and the Dean of Women, respectively.

The following loan funds (with the exception of the Women's Student Loan Fund) are administered by the Committee on Scholarship. In general not more than one hundred dollars may be loaned to any one student, and provision is made for repayment not later than one year after date of graduation or withdrawal from the University. Applications should be filed with the Dean of Men.

Stanford Alumni Association Graduate Loan Fund.—Loans are restricted to candidates for advanced degrees, including the A.M., J.D., M.D., and Ph.D. degrees, preference being given to candidates for the Ph.D. degree. In making loans emphasis shall be placed upon character, scholarship, and intellectual promise in addition to personal need. ($245.)

Stanford Alumni Association Undergraduate Loan Fund.—"For worthy undergraduates." ($522.40.)

Associated Students Undergraduate Loan Fund.—For the benefit of worthy undergraduates who are members of the Associated Students of Stanford University. ($250.)

William Burton Barber Loan Fund.—Established in 1914 by Mrs. Anna M. Barber, in memory of her son, William Burton Barber, '02, "to provide for needy and worthy students." This fund, increased by over $5,000 from the estate of Mrs. Jeannette Taylor, is available for men and women of the senior class who have been registered in the University for at least one quarter. The amount at present available is $6,583.60.

Class of 1906 Loan Fund.— No restrictions except such as may be imposed by the Committee on Scholarship. ($100.)

Horace Davis Loan Fund.—Mr. Horace Davis, charter member of the Board of Trustees, provided in his will a fund of $10,000 the interest of which is to be used as a loan fund for students. The amount at present available for loans is $3,030.97.

Dean of Men's Loan Fund.—An emergency loan fund administered by the Dean of Men upon approval of the President.

Harker Alumnæ Association Loan Fund.—Established in 1917 by the Alumnæ Association of Miss Harker's School, a large number of whose graduates have been Stanford students. There are no restric-

tions except that if a graduate of Miss Harker's School applies she shall be given preference, other qualifications being equal. ($225.)

Dr. Robert Patek Memorial Loan Fund.—Established in 1921 by Mrs. Sadie Dernham Patek (Stanford, '11) in memory of her husband, Dr. Robert Patek. This fund, principal and interest, is to be loaned to medical students to assist them in completing their medical course. A student who has once received a loan from the Fund is entitled to continue to get additional loans until his graduation. The loans granted to students are to bear no interest for six years, then to carry an interest rate of six per cent until paid. Applications for loans are to be made through the President's Office.

John M. Switzer Student Loan Fund.—Mr. John M. Switzer (ex-'98) has presented to the Student Guild the sum of $500, which is to be used from time to time as an emergency loan fund to help tide over critical periods in the career of needy and deserving students who are trying to complete a course at Stanford.

Women's Student Loan Fund.—The Women's Student Loan Fund was organized by the Women's Conference through private subscription, and is increased yearly by small sums earned by a committee of the Conference. It is available for small emergency loans on the following conditions: (1) no interest to be charged until one year after the student leaves the University, then to begin at six per cent, payable annually; (2) all loans to be paid within five years after the student leaves the University. Application for loans from this fund should be made to the Dean of Women.

Scholarships

Alumni Scholarship.—Established in 1923 by a group of alumni. The donors nominate the holder of the scholarship. They direct that all tuition, registration, and other fees be paid out of the stipend, and that the amount remaining, divided into approximately nine equal installments, be paid to the holder of the scholarship toward living expenses. The amount available is $500.

The San Francisco Lodge, No. 3, B. P. O. E. Scholarship.—Established in 1924, for a San Francisco boy, provided "that he be worthy, that he be in need, and that he be of good strong character." In 1925 a second scholarship was established. The amount available is $500 each.

The Alumni Jordan Scholarships.—The Alumni Jordan Scholarship Fund has been founded largely by physicians who were at one time students of Stanford University. Its purpose is to pay the tuition fees of two or three medical students of high standing, with the stipulation

that at some future time the amount will be returned without interest. The student who once receives this scholarship loan will be entitled to its use throughout his medical course, provided his work continues to be satisfactory.

Baldwin Scholarships.—In 1925, $500 was placed at the disposal of the Scholarship Committee for two scholarships for the academic year, 1924–25, by an anonymous donor.

The Bertha Hyde Braly Scholarship.—In 1916 Mrs. J. M. Braly, of Fresno, established an annual scholarship of $250 in memory of her daughter, Bertha Hyde Braly, '97. The amount of the scholarship was increased to $300 by Miss Elizabeth M. Braly in 1921. The scholarship is available for a woman student who is a resident either of Fresno County or Santa Clara County.

The Cap and Gown Scholarship.—Established in 1924, by the Cap and Gown Society, to be awarded to a woman student. The amount available is $300.

Colonial Dames Scholarship.—Established in 1923 and, either upon the recommendation of the Department of History or by competition, to be awarded to the student submitting the best paper on a subject in the field of colonial history. The amount available is $100.

The E. C. Converse Scholarships.—In 1921 the University received a bequest of $50,000 from the estate of Edmund C. Converse for the establishment of the E. C. Converse Scholarship Fund. The income of this fund is to be used under the direction and at the discretion of the President or other ranking executive of the University, in the establishment and maintenance of scholarships not exceeding $500 per annum, to be paid to needy and deserving students. Ten undergraduate scholarships of the annual value of $250 each have been created.

The Mabel Hyde Cory Scholarship.—In 1921 Miss Emma L. Martin, '97, and her sister established a scholarship of the annual value of $500, in memory of Mabel Hyde Cory, '96, who died February 15, 1921. This scholarship is to be awarded preferably to a needy young woman in the Department of History.

The William S. Cranston Memorial Scholarship.—In 1924 Mr. and Mrs. William E. Cranston established a scholarship of the value of $500 annually, in memory of their son, William S. Cranston. This scholarship is to be awarded to an entering student.

The George E. Crothers Law School Scholarship.—In 1917 Judge George E. Crothers, of the class of 1895, established a Law School Scholarship of the value of $200 annually.

THE DICKEY SCHOLARSHIPS.—In 1914 the Trustees of the University received from the estate of the late W. J. Dickey, of Fresno, the sum of $10,000 for the establishment of the W. J. Dickey Scholarship Fund "to aid young men from Fresno County, preferably from Fresno City, to make their way through Stanford University." The Trustees of the Dickey Estate are Mr. E. A. Waldron, Cashier of the First National Bank of Fresno, and Mr. M. B. Harris, of the Fresno bar. The selection and appointment of the W. J. Dickey scholars is made by the President upon the recommendation of the Committee on Scholarship, subject to the provision that the trustees under the will of Mr. Dickey shall be consulted and their advice taken before any appointment is made. No one may be appointed to a Dickey Scholarship unless he shall have been a resident of the County of Fresno, and preferably of the City of Fresno, for at least two years prior to his appointment; and no scholarship may be held or shared by one person for more than four years.

No one may be appointed to a W. J. Dickey Scholarship unless he has fulfilled all the requirements for regular standing in the University.

Other things being equal, in making appointments preference shall be given to first-year students.

Appointments are made for the college year, but may be terminated earlier at the discretion of the committee, and also at the discretion of the committee appointments may be renewed for a total period not to exceed four years.

In making its recommendation the Faculty Committee shall keep in mind that the donor of the W. J. Dickey Scholarship Fund wished the benefits derived therefrom to favor persons financially unable to make their way through college. In addition to this fact, character, scholarship, and seriousness of purpose shall be taken into consideration in determining appointments.

The W. J. Dickey Scholarship Fund provides for two scholarships of about $200 each, payable in nine monthly installments.

Application for appointment to the W. J. Dickey Scholarships, with pertinent evidence and testimonials, is to be made to the President of the University, who will refer it to the appropriate committee. Candidates shall be recommended by the committee to the President, who will submit the names to the trustees of the Dickey estate, and upon their approval appointments shall be made by the President of the University.

THE HENRY G. DODDS SCHOLARSHIP.—In 1921 Mr. Henry G. Dodds established a scholarship fund of $3,000. The income from this fund ($150) is to be awarded annually to a deserving male student, preferably from the Pacific Coast.

The Orrin W. Dunn Scholarship.—Established in 1923 by Mrs. Harriet L. H. Dunn to aid in meeting the expenses of young men (who must be unmarried) attending Stanford University and registered in any of the various departments of engineering, chemistry, geology, or medicine, with sufficient credit to entitle them to junior standing. The donor has provided that the holder of the scholarship shall be selected by the President of the University. The annual value of the scholarship is $800.

The Hiram C. Fisk Scholarship.—In 1920 Mr. W. D. Fisk established a scholarship in memory of his son, Hiram C. Fisk, who is on the Stanford Honor Roll. The amount now available is $250 per annum.

The Gertrude Gardiner Scholarship.—In 1920 Miss Gertrude Gardiner established a scholarship of the annual value of $200 to be known as the Gertrude Gardiner Scholarship, and to be awarded to a non-sorority woman who has been a student in the University for at least two quarters and who is a resident of Roble Hall.

The Wilmer J. Gross ('16) Scholarship.—In 1919 Mrs. Wilmer J. Gross (Dorothy Davy, '16) founded a scholarship in honor of her husband, Wilmer J. Gross, '16, who died in service in France. This scholarship, of the annual value of $150, is open to all undergraduate men who have been in residence in the University at least one year, the appointment to be based primarily on scholarship, with the addition of good moral character and general excellence.

Harvard Club Scholarships. (For students residing in the neighborhood of San Francisco.)—The Harvard Club of San Francisco offers two scholarships, of the annual value of $350 each, to students desirous of pursuing undergraduate studies in Harvard College, or postgraduate studies in Harvard University. Other things being equal, preference will be given to undergraduates. In awarding these scholarships the scholarly attainments of the applicants, as shown by their records, their character, needs, and general development will be considered. Applications should be made in writing, not later than February 15th, to the Chairman of the Scholarship Committee of the Harvard Club of San Francisco, Mr. George S. Potter, 1827 Pacific Avenue, San Francisco.

The Brodie G. Higley ('99) Scholarship.—In 1915 Mr. Brodie G. Higley, of the class of 1899, established, through the Alumni Association, an annual scholarship of $150, "open to either a man or woman undergraduate student who is in good and regular standing in the University, and to whom the money will be a real assistance." In 1919 Mr. Higley deposited with the Board of Trustees securities to the amount of $3,000 to perpetuate this scholarship.

The selection and appointment of the Brodie G. Higley scholar will be made by the President upon the recommendation of the Faculty Committee on Scholarship. Appointment will be made for the college year, but may be terminated earlier on recommendation of the Committee and at the discretion of the President.

Applicants for the scholarship must have been registered in the University for at least three quarters prior to the time of application. In making appointments it will be the purpose of the University to emphasize character, scholarship, and intellectual promise, as well as personal need. Ordinarily the scholarship will be payable in six equal installments, beginning October 1st. Applications should be filed with the Academic Secretary of the University.

The E. W. Hopkins Scholarships.—In 1923 the University received from Mr. E. W. Hopkins a gift of $25,000, the income to be used for paying the tuition of needy students. Five scholarships for entering students, of the annual value of $250 each, have been established.

The Charles Andrews Huston Memorial Scholarship.—Established in 1923 by Mrs. Margaret Huston as a memorial to her husband, Charles Andrews Huston, for many years Professor of Law and Dean of the Stanford Law School. The holder is to be either a graduate or an undergraduate student in the Law School, nominated by the faculty and approved by the Committee on Scholarships. Provided he meets the minimum requirements for holders of University scholarships, the holder need not be chosen primarily for scholarship rating, but for high personal, social, and professional ideals and for interest in cultural fields outside his professional work. The amount available is $150.

The Ira S. Lillick Scholarship.—In 1920 Mr. Ira S. Lillick, of the class of 1897, established a scholarship, of the value of $500, to be awarded annually to a worthy student, preferably in Law.

The Mrs. Ira S. Lillick Scholarship.—In 1920 Mrs. Ira S. Lillick established a scholarship, of the value of $500, to be awarded annually to a worthy student, preferably in Law.

The Ernest A. Love ('18) Scholarship.—In 1920 Mr. and Mrs. Allan Love founded a scholarship, of the annual value of $150, in honor of their son, Ernest A. Love, '18, who died in service in France. This scholarship is open to worthy and needy undergraduate men, preference being given to students from Arizona.

The Mrs. McDowell Roble Club Scholarship.—The sum of $150 per year has been presented to the University by Mrs. John E. McDowell for the purpose of establishing a scholarship to be granted to a Roble

Club member who has been a student in the University and a resident of Roble Hall for two years, the award being made at the close of the junior year.

Memorial Scholarship.—The trust establishing the Leland Stanford Junior Memorial Scholarship provides a fund of $6,000, the income of which shall be used "to pay the living expenses, cost of books, fees, and other necessary expenses of the holder." Under the present arrangement the Memorial scholar receives in cash $100 per quarter, or a total of $300 for the academic year. In addition the trust sets aside a room in Encina Hall for the use of the holder of the scholarship and for which no charge is made.

The Dorothy Metz ('17) Scholarship.—In 1920 Mrs. Lillian C. Metz established an annual scholarship, of the value of $200, in memory of her daughter, Dorothy Amanda Metz, '17, who died in service, the scholarship to be awarded "to a worthy and ambitious student of limited means."

Regional Scholarships.—These scholarships may be awarded to persons who meet the minimum requirements for admission to the University (fifteen acceptable high school units); who ranked in the upper fifth of their graduating class, counting all four years of the preparatory course, or only the last two; and who need this help in order to enter the University. Nominations for regional scholarships will be received from the organized alumni of the region.

San Mateo Union High School.—Established in 1921 by the Associated Students of the San Mateo Union High School. ($300.)

The Rhodes Scholarships.—Under the will of the late Cecil Rhodes two scholarships are assigned to each state and territory in the United States. Each scholarship has a yearly value of £400, and is tenable at any college in the University of Oxford for three successive academic years.

Candidates must be unmarried, must be citizens of the United States and must be not younger than nineteen nor older than twenty-five on October 1st of the year in which they are elected. All scholars, before going into residence, shall have reached at least the end of their sophomore year at some recognized degree-granting university or college. In accordance with the wish of Mr. Rhodes the trustees desire that "in the election of a student to a scholarship, regard shall be had to (1) his literary and scholastic attainments; (2) his fondness for and success in manly outdoor sports, such as cricket, football, and the like; (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for

and protection of the weak, kindliness, unselfishness, and fellowship; (4) his exhibition of moral force of character and of instincts to lead and take an interest in his schoolmates during school days."

The Dr. Emmet Rixford Scholarship in Surgery.—In 1921 Dr. Emmet Rixford, Professor of Surgery in the Stanford Medical School, made a gift of $500, to be awarded to some graduate of Stanford Medical School or to some staff member of rank under that of assistant professor, to be chosen by the medical faculty, for work on some surgical problem, anatomical, physiological, pathological, or clinical, the problem to be approved by the faculty.

The Leon Sloss Fund.—In 1922 Mrs. Bertha G. Sloss established a fund of $5,000 in memory of Mr. Leon Sloss, one of the original trustees of the University, the income to be awarded annually to a needy student. At present this fund is being administered by the Scholarship Committee.

Stanford (Anonymous) Scholarship.—Established in 1925. Value $150.

Stanford Resident Alumnæ Scholarship.—In 1925 the Stanford Resident Alumnæ voted to offer a scholarship for the year 1925–26, of the value of $300, preferably for a woman student.

Stanford Women's Club of San Francisco Scholarship.—The provisions of this scholarship, established in 1924, stipulate that it shall be awarded preferably to a San Francisco girl and that the need of the student shall be the chief concern. The amount available is $150.

The John Maxson Stillman Scholarship in Chemistry.—Established from the Stillman Testimonial Fund, presented to Professor John Maxson Stillman by graduates and former students in chemistry, and by others, on the occasion of his retirement from active service in the University, in May of 1917. The amount available is $150 per year, and the scholarship is open to undergraduate or graduate students in the Department of Chemistry upon nomination by the department faculty and approval of the President.

The Margaret Sidney Scholarship.—Established in 1924 by Miss Margaret Lothrop in memory of her mother, Mrs. Daniel Lothrop. The preference is to be given a woman student who is interested in writing as a life work. The amount available is $300.

The University Scholarships.—In 1919 the Trustees of the University established for graduate students thirty Stanford scholarships, each paying $200 per year of three quarters, awarded for a term of one year, and allowing for the scholar's reappointment at the expiration

of this time. Holders of these scholarships are required to pay tuition and incidental fees, the graduation (diploma) fee, laboratory expenses, and all similar charges laid upon other graduate students.

Fellowships

Belgian Relief Commission Fellowships.—In 1919 the Committee for Relief in Belgium arranged for the establishment and support of a number of fellowships for Americans to undertake graduate study in Belgian universities, with an equal number for advanced Belgian students in American universities.

The Buckel Fellowship.—In 1914 the University established, through the coöperation of the trustees of the estate of Dr. C. Annette Buckel, a research fellowship for the study of backward and feeble-minded children. The annual income from the Buckel estate is supplemented by a sum appropriated by the Trustees of the University, making the total amount available for the fellowship $500.

Fellowships in Education.—In 1919 a fellowship was established jointly by Professor Cubberley and the Board of Trustees, of the annual value of $500, and known as the Fellowship in School Administration. In 1924 a second fellowship of the same character and amount was established by similar joint action. Application for these fellowships should be made through Professor Cubberley.

Fellowship in the Study of Superior Children.—In 1919 a Fellowship for the Study of Superior Children was established jointly by Professor Terman and the Board of Trustees, of the value (for 1925–26) of $1,250. Application for this fellowship should be made through Professor Terman.

The Cyril F. Elwell ('07) Fellowship.—In 1919 Mr. Cyril F. Elwell, '07, established a scholarship, of the annual value of $500, to be awarded by the Committee on Graduate Study to a graduate student in the Department of Electrical Engineering, upon the recommendation of the Department.

The Food Research Fellowships.—The Food Research Institute has established four fellowships, with stipends ranging from $600 to $1,200 per year of three quarters, for the purpose of promoting research upon food problems.

The Lionel Remond Lenox Fellowship in Chemistry.—In 1921 Professor Lionel Remond Lenox, of the Department of Chemistry, established a fellowship, of the annual value of $600, the conditions of award being as follows:

The holder of the fellowship must be a graduate of Stanford University or of some other college or university of recognized standing; must have taken at least one year of graduate work in the Department of Chemistry of Stanford University; must be a candidate for the degree of Doctor of Philosophy in Chemistry in Stanford University; must show an excellent degree of scholarship; and, in addition, be of good moral character. The question of the financial stress of the holder need not be considered primarily, though in general, where there are several applicants of equal degree of scholarship, preference naturally should be given to the one most in need of financial assistance; the selection of the candidate to rest entirely with the Department of Chemistry.

The Physical-Therapy Fellowship.—This gift, established by an anonymous donor in 1923, and to be known as the Rehabilitation Fund of the Medical School, provides a fellowship for six months. The amount available is $300.

Thomas Welton Stanford Fellowship in Psychic Research.—From the "Psychic Fund" created by Mr. Thomas Welton Stanford, in 1913, the Trustees have established this fellowship for research in psychic phenomena.

Teaching Fellowships.—The Board of Trustees established in 1917 two teaching fellowships, of the value of $600 each, in Chemistry.

The University Fellowships.—The Trustees of the University established in 1917 two University fellowships, and in 1919 six additional fellowships, of the value of $750 each per year of three quarters, to be awarded annually by the Committee on Graduate Study for the purpose of fostering advanced study and research in the University. In 1925 four additional fellowships of the value of $400 each were established. In general these fellowships will not be awarded to students in their first year of graduate study.

The William Roberts Eckart Research Fund for Mechanical Engineering.—Together with his mother, two brothers, and sisters, Professor W. R. Eckart, of the Department of Mechanical Engineering, established this fund, in 1923, as a memorial to his father, William Roberts Eckart, to foster and encourage experimental research in mechanical engineering and to interest, assist, and inspire young men who have shown ability to conduct such work.

The fund is administered by a committee consisting of the professors in the Department of Mechanical Engineering, with the executive head of the department as chairman, and is to be devoted to the following purposes: (1) the purchase of special apparatus, equipment, or tools,

necessary for investigation or research, particularly that of students, such apparatus to become the property of the mechanical engineering department and to be added to its research equipment; (2) the defrayal of legitimate expenses required for the successful conduct of any investigation of which the committee may approve. It is not the intention or purpose of the committee to apply the fund toward the living or other personal expenses of the investigators, or as a recompense for work carried out in the conduct of research, it being the desire to emphasize the spirit of doing such work for the reward which comes in the knowledge of a completed investigation well done. The amount available is $600.

Yale Alumni Association Fellowship.—For the pursuit of graduate study at Yale, the Yale Alumni Association of California awards annually to a graduate of Stanford University or of the University of California, the sum of $300 (to which Yale University adds an amount equal to the charge for tuition). Applications should be addressed to the Secretary of the Yale Alumni Association, University Club, San Francisco.

The Guild

The Guild is an organization which seeks to make provision for the care of all cases of serious illness among students. For noncontagious diseases this is accomplished through an arrangement with the Palo Alto Hospital and, for medical students, with the Stanford University hospitals in San Francisco. For the care of contagious diseases provision is made by the maintenance of a Detention Hospital on the University Campus. A reduction of two dollars per day from the regular hospital charges is given all members of the Guild, a substantial portion of the charges for medical attention and special hospital service being paid by the organization.

GENERAL REGULATIONS

Registration

ON the appointed Registration Days, in October, January, April, and June, each student must obtain a certificate of registration *in person,* at the Registrar's office.

Matriculated students may register after the appointed Registration Days upon payment of a special fee: two dollars on the first or second day, three dollars on the third day, four dollars on the fourth day, and so on up to the maximum of ten dollars. Registration of undergraduates (including special students) will not be permitted later than three weeks after the beginning of instruction. (Places are not held for women, nor for new Lower Division men, after the regular registration days, except by permission of the Committee on Registration granted in advance.)

Study-List Card

At the Registrar's office the student receives a card for selection of studies for the quarter. This card, properly filled out, and approved, for Lower Division students, by the Committee on Lower Division Administration, for others, by the Major Department, must be filed with the Registrar at the time of registration; but late study cards will be accepted upon payment of a special fee of two dollars. Students registering late are admitted to particular classes only by permission of the instructor concerned. All work for which university credit is desired must be duly registered.

Enrollment in Classes

A student desiring to enter any class presents his certificate of registration to the instructor for enrollment at the beginning of each quarter. Whether the student is qualified for enrollment in a particular class is a question to be decided by the instructor in charge. In general, the prerequisites for taking any given course are noted under "Courses of Instruction."

Change of Studies

A student desiring to drop a subject once taken up, or to take up a new subject after the study card has been filed, must present to the appropriate committee a petition for such change, approved by the major department and by the instructors whose subjects are to be taken or dropped. In general, petitions so approved, and not involving

courses required of Lower Division students, if they do not give the student too many unit-hours, or too few unit-hours, and if presented within three weeks after the beginning of the quarter, are granted without question. At the end of the first three weeks the undergraduate study-lists are to be considered as fixed. After this period petitions to drop or take up courses are granted only for extraordinary reasons, and where the taking up of new subjects is involved, only on payment of a special fee of two dollars for each course; if otherwise acceptable but presented after the close of the quarter, they will be granted only on payment of a special fee of four dollars for each course. During the last four weeks of the quarter no courses may be officially removed from the student's study-list for any reason whatever; but if failure to complete a course satisfactorily be due to illness or other unavoidable circumstance, application may be made to the Committee on Scholarship for such relief as shall seem equitable.

Change of Major Subject

Petitions to change the major subject will be granted when approved by the departments in charge of both the old and the new subjects, the student being held to all the requirements of the new major subject.

Amount of Work

Fifteen hours per week of recitations or lectures, or an equivalent in laboratory work (counting fifteen units toward graduation) constitute an average quarter's work. Undergraduate registration for less than thirteen units is permitted only in the case of students doing outside work for self-support or otherwise, or where considerations of health are involved, and upon approval of the Committee on Registration. Aside from this limitation, the undergraduate student may undertake any program of studies approved by the Lower Division Committee, or by the major department, as the case may be, subject to the following restrictions: (1) For the first quarter in residence at the University the amount of credit which may be counted toward graduation shall not exceed sixteen units, except as noted below under four; (2) where a condition or failure or withdrawal without permission has been incurred in the preceding quarter, the amount of credit which may be counted toward graduation shall not exceed sixteen units, except as noted below under four; (3) where the work of the student for the three preceding quarters falls below an average B grade (two grade points per unit), not more than eighteen units may be counted toward graduation, except as noted below under four; (4) any student who has received credit for

at least 123 of the 180 units required for graduation, and whose previous record does not fall below a C+ average (one and one-half grade points per unit), may, upon application to the Committee, be given permission to undertake the completion of his work for the A.B. degree in three quarters; if he has received credit for 140 units, in two quarters; if for 159 units, in one quarter; (5) where the previous Stanford record of the student reaches an average B grade, no restriction is placed upon the counting value of the approved program of studies.

Grade point averages and totals shall be based upon the actual units registered and not upon the counting value toward graduation.

Graduate students are not held to any prescribed number of units, but ordinarily registration will not be permitted unless such students are prepared to devote at least half of their working time to university study.

Petitions for irregular registration are to be presented at the beginning of the quarter.

Every unit for which credit is given is understood to represent approximately, for the average student, three hours of actual work per week, through one quarter. Thus, in lecture or recitation work, for one unit of credit one hour per week may be allotted to the lecture or recitation and two hours for preparation or subsequent reading and study on the part of the student; but if a less amount of time is allotted for preparation or subsequent reading or study, there shall be a proportionate decrease in the amount of credit. Where the time is wholly occupied with drawing, field, or laboratory work, or in the classroom work of conversation classes, three full hours per week through one quarter are expected of the student for each unit of credit; but where such work is supplemented by systematic outside reading or experiment under the direction of the instructor, such a reduction may be made in the actual drawing, field, laboratory, or classroom time as seems just to the department concerned.

Scholarship Honors

High scholastic attainment is recognized by the University in the following ways: By awarding honors upon the completion of the Lower Division, to about the upper tenth of the class; by designating as Stanford Scholars, about thirty students in the Upper Division; by conferring the degree of Bachelor of Arts "with distinction" upon about one-tenth of the graduating class, "with great distinction" upon about one-twentieth of the graduating class.

Scholarship Grades

In reporting the standing of students at the end of each quarter the following grades are used: A, B, C, D, passing grades, corresponding in a general way to the terms, 'excellent,' 'good,' 'fair,' 'barely passed'; ('+,' passed, without defining grade); '±,' conditioned; ('—'), failed. In grading classes, 'A' is considered as normally applicable to not more than fifteen per cent, 'B' and 'C' to thirty-five per cent each, and 'D' to fifteen per cent of the students of passing grade. (This distribution of grades is advisory, and is understood to admit of a certain degree of flexibility in the handling of small classes.)

Conditions and Incompletes

A student conditioned or reported incomplete in any subject must remove the deficiency within one calendar year or the work will be considered a failure.

A deficiency due to failure to take or pass a written examination is removed by passing a similar test on the same work. This may be done by taking a regular class examination in the course if repeated in time, or a special written examination to be held during the fourth week of any quarter. A student is entitled to one examination within the year, either regular or special.

Where deficiencies are due to failure to take or pass an oral examination, the time for holding a new oral examination to remove the condition or incomplete, is determined by the instructor concerned. Compliance with the regulations for written examinations, so far as practicable, is required.

Deficiencies due to other causes may be removed by any work or test satisfactory to the department concerned.

Only one examination to remove a condition is permitted. If an examination to remove an incomplete results in a condition, but one examination is allowed to remove it. Instructors will report grades on all such examinations to the Registrar. For every removal of a condition or incomplete, except when removed by passing a regular class examination, a fee of two dollars will be charged each student. Any deviation from these regulations requires the approval of the Scholarship Committee.

Scholarship Reports and Notices

At the middle and at the end of the quarter each department is notified of all serious deficiencies in scholarship affecting students whose major work is in that department.

When a student is reported as seriously delinquent in scholarship, the fact is communicated to his parent or guardian.

Probation and Disqualification

Standard work is obtaining fifteen units, with as many grade points as registered units, per quarter. This standard applies to each quarter and also as an average standard to be maintained on the entire record of the student.

At the end of any quarter in the University a student who fails to obtain twenty-two counts (the sum of units and grade points) is placed on probation. At the end of the first or second quarter he is considered as failing in his studies, and is disqualified for further attendance at the University, if he does not obtain ten counts. At the end of subsequent quarters less than fifteen counts will result in "disqualification."

At the end of the second and every subsequent quarter the student's entire accomplishment is compared with what would have been obtained had he done standard work. If he is above, at, or even slightly below standard his scholarship standing is considered normal. But if his deficiency becomes considerable the result is probation, and in serious cases disqualification.

Application for reinstatement is not ordinarily considered until the end of one calendar year after disqualification; but a student disqualified solely on a deficiency in a single quarter and who has an average C grade in all his Stanford work prior to that quarter, may apply for reinstatement at the end of one quarter, except that such students disqualified in June may not reënter before the following January. Reinstatement is granted only upon satisfactory evidence that the student has employed the period of absence from the University usefully, either in attendance at another educational institution or in some gainful occupation. Work in another institution must reach an average quality halfway between passing and one hundred; or, if the institution is a member of the Association of American Universities, one-third above passing. Work outside of a college or university must show diligence, ability, and maturity of purpose.

Leave of Absence in Case of Delinquent Scholarship

Leave of absence will not generally be granted to a student on probation, nor to any student whose work during the current quarter is unsatisfactory, unless applied for at least four weeks before the end of the quarter.

From Special to Regular Standing

Special students may be entered in regular standing on passing examinations in the required number of entrance subjects, provided such examinations are passed not later than two years after matriculation. In

place of entrance examinations, university work to the amount of seven units for each entrance unit may be offered in university subjects which are also included in the entrance group. (Entrance examinations are given in June by the College Entrance Examination Board; in September by the University, using the comprehensive question papers prepared by the Board.)

University Credit for Extra Entrance Subjects

High school subjects offered in excess of the fifteen units required for undergraduate standing may be credited toward graduation, with a maximum of seven university units for one entrance unit, under the following conditions: (1) The subject must anticipate a course or courses given in the University (e. g., advanced mathematics, the laboratory part of elementary chemistry, or a foreign language); (2) the student, during his first six quarters in the University, must either pass the regular quarterly examinations in the corresponding course, or else complete an advanced course in the University in the same subject with a grade not lower than 'B.' Additional high school units earned after matriculation may be offered only by special students and for the purpose of making up entrance deficiencies.

University Credit for Special Courses

Matriculated students on leave of absence may take work in other universities, usually without any restrictions other than those imposed by the institution in question. But work undertaken in any Summer Session may be subject to special regulations, and must be approved by the major department and by the department in which work is to be taken.

Work of a special character taken outside of regularly scheduled classes, *in absentia* or during vacation periods, may be credited under the following conditions: (1) The work must be acceptable as part of the major requirements for the A.B. degree in the department whose courses it parallels or supplements, must be given necessary supervision and direction by such department and subjected to tests equivalent to those in regularly scheduled courses, and must be approved by the major department and by the Committee on Admission and Advanced Standing; (2) such work may not be offered by students whose general scholarship record is unsatisfactory, or for covering deficiencies due to poor scholarship; (3) not more than forty-five units may be credited toward graduation for such special courses.

Ordinarily the last quarter's work of every candidate for a degree must be taken in this University; but in special cases, students who have

obtained at least one hundred and thirty-five units in resident work, and who have completed all major department requirements, may be exempted from this regulation and permitted to complete the required number of units under the provisions noted above.

Advanced Credit

A student from an institution of equivalent rank, who maintains a satisfactory record after admission, may expect to receive the same standing as at the former institution, but not to exceed three years' advanced credit (one hundred and thirty-five unit-hours toward graduation), and not without consideration of differences in the standard of entrance preparation. Every candidate must present a full certified transcript of his college record, including entrance credit, and a letter of honorable dismissal.

Recommended graduates of approved State Normal Schools where the normal training has been preceded by a full four year high school course, or where high school and normal school courses together cover six years' work, may ordinarily be granted an advanced credit of sixty-seven units; in the case of students from California State Teachers' Colleges, beginning with the 1921 graduating classes, this advanced credit may be increased to ninety units, provided, in the judgment of the Committee on Admission and Advanced Standing, the courses taken by the student are substantially equivalent to the work of the Lower Division of the University.

In general advanced standing for work done before matriculation will be given only when certified as having been completed in some institution of recognized collegiate rank, except as provided above for extra entrance units, or, in particular cases, to recommended graduates of approved State Normal Schools. But in special cases permission may be given by the Faculty to receive credit on examination for work equivalent to regular University courses. Application for such examinations, with satisfactory evidence of the work accomplished, must be presented to the Committee on Advanced Standing. Applications for advanced standing on the basis of work done before entering the University must be made within two years after matriculation.

Graduate Standing

Admission to technical graduate standing does not imply admission to candidacy for an advanced degree (for the conditions of such candidacy see pp. 122–123). If graduates of other universities desire to become candidates for the baccalaureate degree, the question of units required for graduation may be waived, upon approval of the Committee on

Admission and Advanced Standing, and the degree conferred on the satisfactory completion of not less than forty-five units of university work and the fulfillment of all major and minor requirements. Graduate students not candidates for any degree, may be permitted, upon the approval of the major department, to undertake such work as their previous training seems to warrant.

Leave of Absence

A student desiring to leave the University for a brief time should apply to the Committee on Registration. If leave of absence is desired on account of sickness, the petition must be indorsed by the medical adviser. A leave of absence is merely a justification of the absence and not a relief from the work that has been missed, and is usually necessary only in case of interrupted work; a student in good standing absent one or more quarters may re-enter at the beginning of any quarter without formal petition.

Honorable Dismissal

An honorable dismissal means that the student is permitted voluntarily to withdraw from the University and is commended to the favorable consideration of any institution he may wish to enter. An honorable dismissal may be granted upon written application to any student not under discipline for misconduct.

Conduct of Students

The Committee on Student Affairs exercises the authority of the University over all students individually with respect to personal conduct, and, with the exception of athletic and debating teams, over student organizations which bear the name of the University, or which represent the University in non-academic activities, and, in general, assumes such measure of authority over non-academic organizations of students as may be needful to safeguard the general good name and well-being of the University community.

Individual or collective student enterprises, which involve the absence of the participants from the University, while using the University name must receive the official sanction of the Faculty Committee concerned.

In the government of the University the largest liberty consistent with good work and good order is allowed. Students are expected to show both within and without the University such respect for order, morality, personal honor, and the rights of others as is demanded of good citizens. Failure to do this will be sufficient cause for removal from the University.

In 1908 the Board of Trustees of the University provided that in all future rentals or leases of houses as fraternity chapter houses it shall be expressly stipulated that no intoxicating liquors of whatever kind shall ever be sold or used on the premises. The Trustees also by formal resolution requested the Academic Council to prohibit the use of liquor in fraternity chapter houses, student clubhouses, and other student lodgings.

This action of the Board of Trustees is in harmony with the instructions given by the Academic Council to its Committee on Student Affairs, and defines the policy of the University. Prohibition of the use of liquor extends to all student lodgings whether on the campus or elsewhere, and the University assumes that the act of registering as a student implies full acceptance of this policy.

Student Control

In 1911–12 the Faculty Committee on Student Affairs and the University Conferences entered into an agreement by which responsibility for the government of the students and for maintaining University standards was assumed by the men and women of the University. This delegation of responsibility, temporarily recalled, for men, in 1918, was resumed in 1919–20, under an agreement between the President and the men of the University. Under this agreement the responsibility for maintaining University standards among the men students is assumed by the senior class. The Men's Student Council is responsible for the enforcement of University rules governing student conduct, all actions of the Council being submitted directly to the President for sanction or disapproval.

University Health Control

The University exercises an advisory control over student health affairs through the Committee on Public Health.

Every student upon entering the University is required to report for a brief examination. General health and evidence of effective vaccination are the important factors in the examination. Any condition which may place a limitation on the amount or kind of work planned by the student may be discussed with him or made the subject of a report to his major department or to the Committee on Registration.

Students intending to train for any of the athletic teams, or to register for gymnasium work, are required to pass a careful physical examination at the beginning of each quarter.

Examinations at the University have shown that about sixteen per cent of entering men have defective vision of which they are unaware or which has not been corrected. Prospective students are urged to have

their eyes examined by competent specialists before entering the University so that weaknesses may be corrected by glasses.

VACCINATION

Not later than three weeks after the day of registration every student must file with the Committee on Public Health a certificate, signed by the vaccinator, who must be a duly licensed and practicing physician, giving exact dates of vaccination, and showing successful vaccination within seven years.

Noncompliance with these requirements will result in a fine of two dollars after three weeks, an additional fine of four dollars after four weeks, and cancellation of registration after five weeks from the day of registration.

Certificates are to be filed at the Lower Division Office. They will be returned upon request. "Conscientious objections" will not be recognized as exempting anyone. Unavoidable delay, or failure to secure a satisfactory certificate, will not exempt anyone from the fine.

(It is advised that candidates comply with this requirement before coming to the University, and that vaccination certificates be sent in advance by mail. Blank certificate forms may be obtained on application to the Secretary of the Public Health Committee, at the Registrar's Office.)

DEGREES AND TEACHING CREDENTIALS

CANDIDATES may be presented for graduation in January, April, June, and October.

No degree will be conferred upon any person who has not spent at least three quarters in resident study at the University. No honorary degrees are given.

Lower Division Requirements

The Lower Division consists of the first and second years of the University curriculum. Its object is to introduce the student to fundamental fields of human interest, and to this end it requires the completion of certain studies during the first two years. To the students enrolled in the Lower Division the members of the Committee on Lower Division Administration stand in the same relation as that occupied by departmental advisers toward their major students.

Under the supervision of the Committee on Lower Division Administration, the work of the first two years is made up of group requirements, subject requirements, and electives. These requirements are as follows:

GROUP REQUIREMENTS

Eighteen units (nine each year) in each of the following groups: (I) languages and literature (English and foreign), formative art (including graphic art and drawing courses in the engineering departments); (II) natural sciences, mathematics; (III) social sciences (including history, political science, economics, philosophy, and education).

SUBJECT REQUIREMENTS

Six units in English composition (English 2, three units per quarter for two quarters), to be taken during the second year in the University, and applied on the Group I requirement. (A course in elementary English composition (English A) is also prescribed for first-year undergraduates who do not satisfy the matriculation test.)

Twenty-two units in one foreign language, or *fifteen units* each in two foreign languages. (This requirement may be anticipated, in the high school, in whole or in part, its full equivalent being three entrance units in one foreign language or two entrance units each in two foreign languages.)

Nine units in a biological science, and *nine units* in either Physics or Chemistry, applying on the Group II requirement. (One of the sciences

may be anticipated in the high school, its equivalent being one entrance unit in a biological science, or in Physics or Chemistry, or in general science.)

Nine units in American History and *nine units* in general History, normally taken during the second year to fulfill Group III requirement. (One of the History requirements may be anticipated in the high school, its equivalent being one entrance unit in History.)

Twelve units in Citizenship (four units per quarter), to be taken during the first year in the University. This course fulfills the Group III requirement in the first year.

All undergraduates enrolled in the Lower Division, with the exception of those registered in the Military Department, are required to devote to physical training three schedule hours per week, for a maximum of six quarters.

Major Subject

The selection of a Major Subject will be made ordinarily at the end of the second year, upon completion of the requirements of the Lower Division. The Lower Division student may, however, at the beginning of any quarter, designate the particular department in which he expects later to do his major work, and will then be directed to the department for consultation and advice regarding electives before making up his study-list.

At the beginning of the junior year, and upon completion of the Lower Division requirements, the student selects as a Major Subject the work of some one department. The Major Department has the authority to prescribe not more than sixty units in the Major Subject (exclusive of elementary courses in the Major Department which may be offered for entrance). The Major Department shall also recommend such other courses as may be considered desirable, and shall exercise an advisory supervision over the student's curriculum from quarter to quarter. It shall be considered a general principle of University policy, to be departed from only in exceptional cases, that at least ninety of the one hundred and eighty units required for the degree be taken outside of the Major Department.

In applied science the Major Department may prescribe as much of the entire one hundred and eighty units as it shall deem essential to the technical or professional requirements of the Major Subject.

Within these limitations the work in all departments is elective, and the student may freely choose any course which his previous studies have prepared him to undertake.

(A student in regular undergraduate standing who does not intend

to become a candidate for the A.B. degree, may choose, with the approval of the Lower Division Committee, or of the Major Department, any course in the University which his previous training has prepared him to undertake.)

Bachelor of Arts

The degree of Bachelor of Arts (A.B.) is conferred upon candidates who have fulfilled the following requirements:

(1) The completion of one hundred and eighty (quarter) units of university work, including the required Lower Division courses, together with the required physical or military training. (A special student who has completed two hundred and twenty-five units of university work, including all Lower Division and major requirements, and whose general university record is deemed proof of superior scholarship, may become a candidate for graduation on approval of the Committee on Admission and Advanced Standing; but ordinarily petitions to this end will not be considered by the Committee until after the student has completed one hundred and eighty units of university work.)

(2) The acquirement of as many grade points as there are units registered on the candidate's record card. A unit of credit passed with a grade of 'A' counts three grade points; with a grade of 'B,' two grade points; with a grade of 'C,' one grade point; with a grade of '+,' one grade point; with a grade of 'D,' no grade points. A 'condition' removed does not count grade points, no matter what the final grade may be. (Advanced credit for work in other institutions counts one grade point for each unit of credit.)

(3) The completion of the major subject requirements as prescribed by the Major Department.

The recommendation of the Major Department is necessary to graduation.

Forty-five units constitute a normal year's work (see p. 94), but the ordinary class divisions (freshman, sophomore, junior, senior) are not recognized by the University. The degree is conferred whenever the requirements are met, without regard to the time spent, except that at least forty-five units (including, except in special cases, the last fifteen) must be completed in this University.

As a recognition of high scholastic attainment the Bachelor's degree may be granted "with distinction" or "with great distinction."

Master of Arts

The degree of Master of Arts (A.M.) is conferred on graduates of this University, and of other recognized institutions, upon the satisfactory

completion of one academic year of graduate work, the presentation of an approved thesis, and the passing of such general or final examination as the Major Department or school may require. A longer period of residence will be necessary for candidates who are inadequately prepared, or who devote less than the normal proportion of time to their studies. In no case will the degree be granted unless the student has been registered for three quarters after completing the requirements for the A.B. degree. The Master's degree is conferred only upon recommendation of the Committee on Graduate Study.

A candidate must file with the Registrar, not later than the third week of the quarter next preceding that in which the degree is to be conferred, an application for candidacy; which shall include a recommendation, from the Major Department or school, of his candidacy for the Master's degree, and a program of study approved by the Major Department or school. The acceptance of this application by the Committee on Graduate Study is necessary for admission to candidacy for the degree. At least two-thirds of a year's work must be devoted to advanced or graduate study in the major subject or in intimately allied subjects. Work may be done in connection with regular courses, or, as research, independently of them. Applications once submitted must be kept on file, and may not be withdrawn even if substitutes are filed and accepted.

The Master's thesis must display the candidate's ability to do independent work. A copy, bearing the approval of the instructor under whose supervision it was prepared, must be submitted to the Committee on Graduate Study by the date on which instruction closes for the quarter in which the degree is to be conferred. This copy shall be the original, not a carbon copy, typed on paper of standard size and weight, with a title-page of the form prescribed by the Committee, and suitably bound. Upon acceptance it will be placed in the University Library.

Engineer

In the departments of applied science the professional degree of Engineer is conferred on graduates of this University, and of other recognized institutions, upon the satisfactory completion, in residence, of professional study for either one or two years, as the Major Department may require, and upon the presentation of an approved thesis, showing ability to do independent work. Upon the recommendation of the department, and only in order to permit the carrying on of advanced work under conditions not available at the University, the requirement of residence may be waived in part. The degree is conferred only upon the recommendation of the Committee on Graduate Study.

The special regulations for the degree of Master of Arts dealing with registration, program of study, and thesis, as stated above, apply also to candidates for the degree of Engineer.

Juris Doctor

The degree of Juris Doctor (J.D.) is conferred, upon recommendation of the Committee on Graduate Study, on students who have previously received the degree of Bachelor of Arts, or its equivalent, upon the completion of the three years' professional law course.

Doctor of Medicine

The degree of Doctor of Medicine (M.D.) is conferred, upon recommendation of the Committee on Graduate Study, on students who complete the five years' curriculum in Medicine (which includes the interne year), based upon the three years' pre-medical course as laid down by the University.

Doctor of Philosophy

A candidate for the degree of Doctor of Philosophy (Ph.D.) must be a graduate of this University or have had equivalent training. Those who contemplate offering themselves as candidates for this degree are invited to correspond with the instructors in the subjects involved. Before being recommended for the degree, a candidate must show, together with a satisfactory general equipment, high attainment in a particular field of knowledge, and ability to do independent investigation; mere length of residence and courses taken are not the main consideration. A candidate must have satisfactorily completed at least three years of graduate work under the following conditions:

1. At least one year of graduate study, other than the first, must be spent in residence at this University. Candidates must be registered in the University. Within the first quarter after entering upon study for this degree, that is, ordinarily, the first quarter of the second year of graduate study, a candidate must file with the Registrar an application for candidacy; which shall include a recommendation, from the Major Department or school, of his candidacy for the doctor's degree, and a preliminary program of study approved by it. The approval of this application by the Committee on Graduate Study is necessary for admission to candidacy for the degree. Applications once submitted must be kept on file, and may not be withdrawn even if substitutes have been filed and accepted.

2. The program of study will include ordinarily one major subject and one or two minor subjects The minor subject or subjects will usually represent approximately one-third of the program of study.

In cases where a modification of the formal rule seems desirable to the Major Department or school and to the Committee on Graduate Study, as where the interests of the student's work may be better served by a division of his collateral study among more than two subjects or departments, or where certain courses of study falling within a department may be indicated rather than a full minor of one-third of his time, the minor subject requirement may be waived.

3. Before the primary examination provided for in the next paragraph the candidate must show a reading knowledge of French and German in his special field. The faculty of the department in which the major work is taken determines whether this requirement has been met, and certifies the fact in writing to the Committee on Graduate Study at or before the primary oral examination.

4. At some time within his third quarter of study preceding that in which the degree is to be taken, that is, toward the end of the preceding year, or in any event no later than the first six weeks of his next quarter following, the candidate must pass a primary oral examination approximately three hours in length. The examining committee shall consist of (1) the chairman of the Committee on Graduate Study or his delegate presiding; (2) the professors in the group of departments in which the major subject lies; (3) the professor or professors in charge of the minor subject or subjects, if lying in another group of departments. The five groups of departments are Language and Literature, History and Social Sciences, Biological Sciences, Pure Mathematical and Physical Sciences (including Applied Mathematics), Engineering Sciences. The Department of Philosophy, the Department of Education, or the Food Research Institute may for this purpose be designated by the Dean of Graduate Study as a temporary member of any of the five groups. Any member of the academic council may attend and take part in the examination, but only members of the committee vote. The purpose of the examination is chiefly to investigate the candidate's knowledge of his major and minor subjects, but his general education may also be touched on. For special reasons, and with the approval of the Major Department and of the Graduate Study Committee previously obtained by the student, a small proportion of the field of his major and minor subjects may be excepted from this examination. While the special field in which his dissertation lies may be inquired into, no searching examination into it will be undertaken at this time. A two-thirds majority of the Committee passes the candidate.

5. At least four weeks before the close of the final quarter before the degree is to be conferred, the candidate must deposit a dissertation at the Registrar's office. The dissertation must be the result of inde-

pendent work, expressed in satisfactory literary form, and must in some way add to or otherwise modify what was previously known on the subject. It must be approved by a special committee appointed by the chairman of the Committee on Graduate Study, consisting of the professor under whom it was written and two others.

6. After the acceptance of the dissertation by the special committee, the candidate shall be given a secondary oral examination of an hour or more, mainly on the special field in which his dissertation lies, and on such other subjects, if any, as may have been excepted from the primary examination. The examining committee, of five members, shall consist of the chairman of the Committee on Graduate Study or his delegate presiding, a professor selected by the candidate's Major Department, a professor selected by the candidate's Minor Department or departments, if any, and additional members (to make the total of five) appointed by the chairman of the Graduate Study Committee. Three favorable votes are necessary to pass the candidate.

7. Before the degree is conferred, the candidate must deposit at the Registrar's office (1) three typewritten (or printed) copies of his dissertation, one of which will be made available by the University Library for loan to other libraries, and (2) an abstract of its contents between 500 and 2,000 words in length. These abstracts will be from time to time issued in a volume by the University, and each candidate's estimated share in the expense of printing this volume will be added to his diploma fee.

Advanced Degrees in the School of Medicine

The departments of the School of Medicine are considered as equivalent to other departments of the University in respect to candidacy and requirements for the degrees of Master of Arts and Doctor of Philosophy, and all the foregoing regulations apply to these departments and department faculties as to departments and department faculties, with the following modifications and limitations:

1. Candidates for these degrees must have received the degree of A.B. at Stanford, or an equivalent degree elsewhere, and must have completed all requirements for admission to the School of Medicine, and such other requirements as each division faculty may prescribe.

2. Time spent in candidacy for the degree of Master of Arts or Doctor of Philosophy will not be counted toward the degree of Doctor of Medicine.

3. Candidates for these degrees in the departments of Medicine, Surgery, and Obstetrics and Gynecology, must have received the degree of Doctor of Medicine.

TEACHING CREDENTIALS

Teacher's Certificates are issued by County, and City and County Boards of Education under the provisions of Section 1519, subdivision 5 (*a*), Section 1775, subdivision 1 (*a*), and Section 1792 of the Political Code of California. The State Board of Education of California, in accordance with the law, is empowered to issue Teaching Credentials, valid throughout the State, upon which County, and City and County Boards of Education may in turn issue Certificates. This University, through its School of Education, has been empowered to grant Recommendations to students who meet requirements laid down by the State Board of Education for Credentials. The Recommendations, Credentials, and Certificates issued are of six grades: (1) Elementary, (2) Junior High School, (3) High School, (4) Special, (5) School Administration, and (6) School Supervision. Preliminary Certificates (7), valid only for cadet teaching in connection with Education 201, are also granted.

The Certificates, granted on the basis of the State Board of Education Credentials, are valid for teaching, and Recommendations for them may be obtained under the following conditions:

1. The Elementary-School Certificate

(Valid for teaching in the eight grades of the elementary schools.)

1. The possession of a Bachelor's degree from this University.

2. The completion of requirements as outlined in the Announcement of the School of Education, under *Elementary Certificate Course.*

3. A course in the Constitution of the United States, 3 units (History 175, 3 units).

[Note: This course is not a part of the State Board of Education requirements, and is in addition thereto, having been made mandatory by the legislature of California.]

2. The Junior High School Certificate

(Valid for teaching in any junior high school grades.)

1. The possession of a Bachelor's degree from this University.

2. The completion of 23 quarter units of work in Education, which must include: (*a*) Methods and Management of Instruction, 2 units (course 199); (*b*) Practice in Teaching, with Conferences, 6 units (course 201); (*c*) The Junior High School, 3 units (course 196); (*d*) California School System and Law, 3 units (course 155); (*e*) Education for Citizenship, 3 units (course 160); (*f*) a Teacher's Course in one major or minor subject, maximum 4½ units; and additional work to make up the required units. It is highly desirable that the requirements for the

Elementary certificate be completed by every candidate for the Junior High School credential, that the credential may read "including Elementary," in order that the candidate may teach in the elementary grades as well.

3. The completion of the required work in at least one Teaching-Major and one Teaching-Minor, subjects taught in the high schools, with the exception that where the Major is Education, two Minors are required.

4. A course in the Constitution of the United States (History 175, 3 units).

(Persons who have had at least 17 months of experience in teaching, and who have completed 3½ years of collegiate work in advance of a four-year high school course, including 13½ quarter units of prescribed work in the Department of Education, may apply directly to the State Board of Education for a Junior High School Credential, but will not receive the Recommendation of the Stanford School of Education.)

3. The High-School Certificate

(Valid to teach in the junior colleges, high schools, junior high schools, or elementary schools.)

In all cases the candidate must hold a Bachelor's degree from some institution requiring eight years of high-school and college work for such degree, must satisfactorily complete the required work in at least one Teaching-Major and one Teaching-Minor, with the exception that where the Major is Education two Minors are required, and in addition must complete in this University a varying amount of graduate study, to be determined by the following conditions:

GROUP I: STANDARD GROUP

1. One year of graduate study (at least 39 quarter units of work numbered 100 or over, as Lower Division courses will not be counted by the State Board of Education if taken during the graduate year), which must include not less than 9 quarter units in subjects in which recommendation is sought and not less than 9 quarter units in Education.

2. At least 27 quarter units in Education, including the following courses: (*a*) Methods and Management of Instruction, 2 units (course 199); (*b*) Practice in teaching, with conferences, 6 units (course 201); (*c*) Secondary Education, presenting particularly the purpose and attainable goals of high-school work, 3 units (course 195); (*d*) The work of the Junior High Schools, 3 units (course 196); (*e*) California School System and Law, 3 units (course 155); (*f*) Education for Citizenship, 3 units (course 160); (*g*) A Teacher's Course in at least one subject in

which the candidate expects to be recommended for certification, if such course be given in the institution and be accepted or listed under the work in Education (4½ units maximum for all such courses); (*h*) Such other courses relating to the history, theory, function, and administration of public education, as are needed to complete the required 27 units.

3. Candidates who have taught or been engaged in school supervision in this or any other state, and who present credentials showing that they have done so for at least 9 months with reasonable success, may be excused from 6 of the 27 units of Education represented by the practice teaching (201), and may also be excused from or allowed to substitute other work in Education for the course in Methods and Management of Instruction (199). All students desiring such exemption must make application on Form B, to be obtained at the office of the Secretary of the School of Education, Room 52.

4. A course in the Constitution of the United States (History, 175, 3 units).

GROUP II: EXPERIENCED-TEACHERS' GROUP

Teachers who have had at least seventeen months of satisfactory experience in elementary or secondary schools, or 1,600 hours of classroom instruction in colleges or universities in this or other states, may be exempted, if their application for such exemption is approved by the School of Education, from as much as one-half of the year of graduate work, and from as much of the required work in Education as their experience seems to warrant, though not to exceed a total of 9 units. (Application for exemption from Education requirements on the basis of teaching experience must also be made on Form B.) In any case all such persons will be expected to meet at least the following requirements:

1. Two quarters (at least 26 quarter units) of graduate study (in upper division college subjects), which shall include not less than 9 units of advanced or graduate work in subjects in which recommendation is sought and not less than 9 quarter units in Education. Students who can arrange their graduate work so as to be present during the summer quarter may satisfy the residence requirement by one and a half quarters, if other requirements can also be met in this time.

2. At least 18 quarter units of work in Education, including (*a*) Secondary Education, 3 units (course 195); (*b*) The Junior High School, 3 units (course 196); (*c*) California School System and Law, 3 units (course 155); (*d*) Education for Citizenship, 3 units (course 160); (*e*) a Teacher's Course in at least one subject in which the candidate expects to be recommended for certification, as may be determined after consideration of the individual case (4½ units maximum for all

such courses); (*f*) additional courses as approved to make up the required 18 units.

3. A course in the Constitution of the United States (History 175, 3 units).

4. Special Certificates

(See Division IX.)

(Valid for teaching only the special subjects in any elementary school, junior or senior high school, or junior college in California.)

A Special Certificate of Secondary grade, authorizing the holder to teach only such branch or branches and in such grades as are named in such certificate may be granted as follows:

1. To recommended candidates who have had at least four years' instruction beyond that required for graduation from a high school maintaining a four-year course in advance of the eighth grade, or who have had an equivalent amount of training.

2. From 23 to 27 quarter units must have been devoted to the study of Education in courses suited to the training of a secondary-school teacher, at least 6 units of which must have been devoted to practice teaching, and a course must be taken in the methods of instruction in the special subject or subjects, under competent supervision. Ordinarily courses 155, 160, 165, 195, 196, 199, and 201 must be included.

3. The work of all candidates must be approved by the Representative of the Special Subject in the School of Education.

4. Each Special Certificate course requires for recommendation, the possession of an A.B. degree from the University.

5. The School Administration Credential

This Credential will be granted to the holders of a valid California Teacher's Certificate, or a California Life Diploma, of elementary, junior-high, or secondary grade, who have had at least 17 months of successful experience in teaching, and who, *in addition* to all requirements for a regular Teacher's Certificate, have completed 22½ quarter units of work in Education, as given in the specific requirements listed below.

The School Administration Certificate authorizes the holder to administer public education and to engage in such supervision as may be properly included in the duties of a superintendent, deputy superintendent, assistant superintendent, principal, general supervisor, or head of a department offering instruction in non-special subjects, such as English, Mathematics, Social Science, etc. Superintendents, deputy superintendents, assistant superintendents, principals of schools of more than five teachers (one of whom acts as principal) and vice-principals devot-

ing full time to administrative duties will be required to hold the School Administration Certificate. The grade of Certificate is determined by the grade of teacher's Certificate held, and after January 1, 1925, will be indicated on the State Credential. The grade of such Credential may be raised without fee when the holder obtains a higher grade of general teacher's Certificate.

Application for raising the grade of an Administration Credential must be made to the State Board of Education, accompanied by the Administrative Credential and the teacher's Certificate of higher grade.

The following courses have been prescribed by the State Board of Education as the ones that must be taken to meet the requirements for this Credential. After the description of each course as prescribed the course offered by this University that will satisfy the requirement is indicated.

1. At least 15 units to be selected from the following courses:
   (a) A course in the History of Education in the United States, which will present the problems of present-day education in the light of their historical development. (Course 180, 4 units.)
   (b) A course in Educational Tests and Measurements, which will show their use and give some training interpreting the results obtained. (Course 192, 4 units.)
   (c) A course in School Administration, dealing with the broad fundamental principles underlying public school administration. (Courses 230 or 231, 4–5 units.)
   (d) A course in the Growth and Development of the Child. (Course 168, 3 units.)
   (e) A course in the Philosophy of Education. (Course 178, 4 units.)

2. At least 7½ additional quarter units, to be selected from the following courses:
   (a) Work of an Elementary School Principal. (Course 233, 4 units.)
   (b) Administration of a High School, or of a Junior High School. (Courses 205, 4–5 units; 208, 2 units.)
   (c) The Organization and Supervision of Elementary Education. (Course 242, 4 units.)
   (d) The Supervision of Instruction. (Courses 202, 1 unit; 242, 4 units.)
   (e) Statistical Methods. (Courses 190, 4 units; Psychology 60, 5 units.)

(f) School Surveys. (Course 235, 4 units.)
(g) Rural Education. (Course 177, 3 units.)
(h) The Elementary School Curriculum. (Course 240, 4 units.)
(i) The High School Curriculum. (Course 209, 2 units.)
(j) State and County School Administration. (Course 250, 4 units.)
(k) City School Administration. (Courses 230, 4 units; 231, 5 units.)
(l) School House Hygiene and Construction. (Course 237, 3 units.)
(m) Methods in Mental Diagnosis. (Courses 225, 4 units; 226, 4 units; 170, 3 units; 172, 3½ units.)
(n) The Organization or Administration of Vocational Education. (Courses 198, 2 units; 210, 2 units.)

Under the rules of the State Board of Education, equivalents for any of the above courses, taken elsewhere, can be accepted only when they were completed in "a collegiate institution of standard grade."

6. School Supervision Credential

The School Supervision Certificate authorizes the holder to engage in school supervision, in accordance with the class held, viz.:

Class A. General Supervision, authorizing the supervision of all instruction within the grade of the Certificate.

Class B. Special Supervision, authorizing supervision in special field, such as music, art, physical education, etc.

Class C. Departmental Supervision, authorizing the supervision of departmental instruction in a junior college, high school or junior high school.

Persons devoting at least half time to supervision will be required to hold the School Supervision Certificate. The grade of Certificate is determined by the grade of teachers' Certificate held in the subject, or subjects, to be supervised, and after January 1, 1925, will be indicated on the State Credential.

This Credential will be granted to the holder of a valid California Teacher's Certificate, or a California Life Diploma, of any regular grade or special type, who has had at least 17 months of successful experience in teaching, including the subjects he wishes to supervise; and who, *in addition* to all requirements for a regular or Special Teacher's Certificate, has completed school supervision subjects in accordance with the class specified:

CLASS A—GENERAL SUPERVISION

(a) 15 quarter units selected from not less than four of the following courses (School Organization and Supervision, and Growth and Development of the Child required):

(1) School Organization and Supervision. (Courses 230 or 231, 4–5 units.)
(2) Growth and Development of the Child. (Course 134, 3 units.)
(3) Philosophy of Education. (Course 178, 4 units.)
(4) History of Education in the United States. (Course 180, 4 units.)
(5) Educational Tests and Measurements. (Course 192, 4 units.)
(6) The Curriculum. (Courses 209, 2 units; 240, 4 units.)

(b) 7½ quarter units selected from the following group:

(1) Rural Education. (Course 177, 3 units.)
(2) Educational Sociology or Social Aspects of Education. (Course 247, 5 units.)
(3) The Relation of Community Agencies to Public Education. (Course 175, 5 units.)
(4) Problems of Supervision. (Courses 203, 3 units; 242, 4 units.)
(5) Modern Practice and Experiment in Education. (Course 192, 4 units.)
(6) Methods in Mental Diagnosis. (Courses 225, 4 units; 226, 4 units; 170, 3 units; 172, 2½ units.)
(7) Vocational Guidance. (Course 197, 2 units.)

[NOTE: The candidate must also verify at least 9 quarter units in each of two subjects selected from the following: music, art, physical education, manual arts, commerce, home-making subjects, and agriculture. These courses need not be in addition to courses presented for the Teacher's Certificate.]

CLASS B—SPECIAL SUPERVISION

(a) 6 quarter units of work selected from at least two of the following courses (Growth and Development of the Child required):

(1) Growth and Development of the Child. (Course 168, 3 units.)
(2) Philosophy of Education. (Course 178, 4 units.)
(3) History of Education in the United States. (Course 180, 4 units.)
(4) Social Value of the Special Field in which Supervision is to be done.

(b) 9 quarter units of work selected from the following group (Organization, Objectives, and Supervision of Instruction in the Special Subject required):

(1) Organization, Objectives, and Supervision of Instruction in Special Subject. (Course 200.)

(2) Tests and Measurements in the Special Subject. (Course 192, 4 units.)
(3) Problems of Supervision. (Course 242, 4 units.)
(4) Vocational Guidance. (Course 197, 2 units.)

CLASS C—DEPARTMENTAL SUPERVISION

(a) 7½ quarter units of work including the following courses (Problems in the Organization and Supervision of a Department, and Educational Measurements required):

(1) Problems in the Organization and Supervision of a Department. (Course 233, 4 units.)
(2) Organization and Supervision of Instruction. (Course 242, 4 units.)
(3) Educational Measurements, including Tests in Special Field, if available. (Course 192, 4 units.)

[NOTE: Holders of Class "C" Departmental Supervision Credentials may be granted the School Administration Credential upon completion of 15 quarter units of work in school administration subjects as outlined under group (a) of requirements for the Administration Credential.]

7. EDUCATIONAL RESEARCH AND GUIDANCE CREDENTIAL

The State Board has provided for a Research Credential, secondary grade, the details of which are as follows:

Each applicant for an Educational Research and Guidance Credential must verify:

1. That he is a person of good moral character and represents a high type of citizenship.

2. That he holds a bachelor's degree from a standard college or university, requiring not less than eight years of high school and college training.

3. That he has completed one full year of postgraduate work, at least one-half of which has been completed in one or more of the institutions whose schools or colleges of education have been accredited by the California State Board of Education, or the equivalent thereof.

4. That he has had at least seventeen months of successful teaching experience.

5. That he has completed not less than 50 semester hours of work, or its equivalent, distributed approximately as follows:

I. Educational Psychology, 22 semester or 33 quarter hours selected from the following:
(a) Educational Psychology.
(b) Growth and Development of the School Child.
(c) Educational Tests and Measurements.

(d) Mental Tests.
(e) Educational Statistics.

II. Clinical Psychology, 10 semester or 15 quarter hours selected from the following:
(a) Psychology of the Abnormal.
(b) Mental deficiency and delinquency.
(c) Psychiatric case work or mental hygiene.
(d) Psychological clinic.

III. Educational and Vocational Guidance, 3 semester or 4½ quarter hours selected from the following:
(a) Educational and vocational counseling.
(b) Industrial Psychology.
(c) Personnel Management.

IV. Sociology, 15 semester or 22½ quarter hours selected from the following types of courses:
(a) Heredity and Eugenics.
(b) Social Case Work.
(c) Dependency and Delinquency.
(d) Family and Child Welfare.
(e) Industrial and Social Economics.
(f) State School Administration or City School Administration.
(g) Labor Problems and Industrial Relations.

Total: 50 semester or 75 quarter hours.

A limited credential may be granted upon the completion of not less than 25 semester hours, or 37½ quarter hours, of work distributed approximately as above. However, all requirements must be satisfied before a long-term credential will be granted.

At the discretion of the Commission of Credentials, a credential limited to statistical work in an Educational Research Laboratory may be granted upon evidence of satisfactory training or experience in the treatment of statistical data.

An Educational Research and Guidance credential may be granted, at the discretion of the Commission of Credentials, to applicants who verify five years of successful experience in the field of educational research, whose training and experience approximately fulfills the requirements established for this credential.

8. Preliminary Certificates

Recommendations for Preliminary Special or Preliminary Regular Elementary, Junior High, or High School Teacher's Certificates, authorizing the holder to do cadet teaching, without salary, in any school, are also granted to those enrolled for Practice in Teaching, Education 201.

Application for these is made through the Director of Practice Teaching, Professor Proctor.

Application for a Teaching Credential

1. When any student has spent the requisite time in study at this University, and has completed the prescribed program of studies in Majors and Minors for the High School Teacher's Recommendation; or the special course of study required by the School of Education and by the regulations of the state for an Elementary-School, a Junior High-School, or any Special Type of Teacher's Recommendation; such student must make application during the last quarter of residence at the University, for a Recommendation for the type of Certificate desired, and leave such application with the Secretary of the School of Education, in Room 52.

The Recommendation desired is granted only after the application has been approved by the Committee on Credentials and Degrees of the School of Education, and is then forwarded to the Commission on Credentials of the State Board of Education, at Sacramento. In due course the applicant receives a State Credential from the State Board of Education direct, upon presentation of which to any County Superintendent of Schools in California, together with diploma of graduation or any other required evidence, a Certificate will be issued. This procedure is made necessary by a requirement of the Constitution of California that the actual Teacher's Certificate can be granted only by the counties.

Application blanks for the Administrator's and Supervisor's credentials and other types of credentials may be obtained from the Secretary of the School of Education, but the candidates will send such applications directly to the Commission on Credentials of the State Board of Education.

APPOINTMENT OFFICE

The Appointment Secretary is a member of the President's executive staff, with offices in the Administration Building. The duties of this secretary are briefly as follows:

1. To assist students and graduates of the University to obtain permanent employment or promotion in the kind of work for which they have prepared themselves.

2. To help students of the University who are earning part or all of their own expenses to find suitable part-time employment.

3. To help students who wish it to find full-time temporary employment, whether the purpose be merely to earn money or to become more proficient in their chosen field of work.

4. To give inquiring students and graduates as accurate information as possible regarding the actual opportunities presented by the different fields of employment. The investigation which this work involves is an important feature of the Appointment Secretary's duties.

Statistics covering the work accomplished are compiled annually.

The Appointment Secretary aims to secure and keep on file a complete record of the education, experience, and personal qualifications of each candidate for a permanent position, to be used by prospective employers in determining whether or not the candidate is qualified for the position to be filled. In order that the statements made may be frank and reliable, they are never shown to candidates.

The University reserves the right of refusing to extend its coöperation to candidates who apply for positions for which they are manifestly unfit.

Forms for registration may be obtained of the Appointment Secretary upon request. When asking for forms it is necessary to state whether part-time, temporary, or permanent employment is wanted, and, in the case of permanent employment, whether teaching on some other profession.

Teachers must renew registration annually, preferably in January. Those desiring other kinds of permanent employment should renew their registration the first of every month—particularly the first of September, which is the beginning of the academic year. Those seeking part-time or temporary employment must renew registration at the beginning of each quarter. The responsibility of renewing registration is placed upon the candidate.

New students who expect to earn part or all of their expenses at the University should apply to the Appointment Secretary for registration forms as soon as possible after being assured of admission to the University.

Candidates for permanent positions are charged $1.50 at the time of registration. This sum covers the actual cost of collecting records. A small charge is also made for editing, copying, and mailing records. All classes of candidates are charged for telephone and telegraph bills incurred in their behalf. No charge is made for other services rendered candidates for part-time or temporary work, and no charge is made for the securing of positions of any kind.

All communications should be addressed to The Appointment Secretary, Stanford University, California.

COURSES OF INSTRUCTION

[The asterisk (*) indicates that the course is repeated for the quarter named; otherwise courses announced for more than one quarter are presumably continuous. Courses numbered from 1 to 99 inclusive are primarily for lower division undergraduates; from 100 to 199 inclusive, for upper division undergraduates; from 200 to 299 inclusive, for graduate students. Teachers' courses which count toward fulfilling the requirement in education established by the State Board of Education for the high school teacher's credential, are ordinarily given the number 200; when other numbers are used they are followed by the letter E. The enrollment in the various courses is printed in italics at the end of the descriptive matter.]

ANATOMY

Arthur William Meyer, Charles Haskell Danforth, Frank Mace McFarland, Professors.
Clara S. Stoltenberg, Associate Professor.
Anna Franklin Barnett, Herlwyn R. Green, Teaching Assistants.

Required Courses

101. General Histology and Microscopic Anatomy.—A course dealing with the elementary structure and vital activities of the animal cell, the histology and development of the tissues, and their combination into the organs of the Vertebrates, with especial reference to the Mammalia. Elementary histological technique is taught during the course. Open to medical students, and to others properly prepared, so far as laboratory space permits.

4 units, autumn and winter quarters (McFarland) Lec. by arrangement, Lab. (autumn) WThF 1:20–4:05; (winter) MT 9–12, W 1:20–4:05
autumn, 71; winter, 66; spring, 5

102. Osteology.—Students will be expected to familiarize themselves thoroughly, on their own initiative, with the surface anatomy of the bones of the skeleton. This individual work will be supplemented by the laboratory study of special aspects of the subject under the supervision of instructors. Not given as a separate course, but in connection with course 103. Students should, however, enroll separately for this work, to which 3 units of credit are assigned.

(Meyer, Danforth)
autumn, 72

103. Dissection of the Human Body.

17 units (Danforth, Meyer) Lab. (autumn) MW 8–12, TThF 9–12; (winter) WThFS 9–12; (spring) MTWThF 8–12
autumn, 72; winter, 69; spring, 70

206. Neurology.—A study of the structure of the central nervous system of man by means of dissections and prepared slides, supplemented by dissections of the central nervous system of other mammals.

5 units, autumn quarter (STOLTENBERG) (autumn) Lec. W 8; Lab. MF 8–11, W 9–12.
autumn, 36

OPTIONAL AND ADVANCED COURSES

107. Cytology.—The course deals with the structure and functions of the animal cell with special reference to the reproductive processes. Lectures, laboratory work, and assigned reading. Open to those who have had courses in Histology, Embryology, and Microscopic Technique.

3 to 5 units, spring quarter (MCFARLAND) By arrangement

108. Special Courses.—Advanced Courses in Histology, Histogenesis, Microscopic Anatomy, Cytology, or Microscopic Technique will be planned to suit the needs of individual students. Open to those who have had courses in Histology and Embryology.

2 to 5 units (MCFARLAND) By arrangement
autumn, 1

109. Topographical Anatomy.—The work consists of the laboratory study of frozen sections of fetal, infantile, and adult cadavers made in various planes, and of dissected and specially injected preparations, supplemented by models and atlases.

2 to 5 units (MEYER) By arrangement
winter, 2

110. Anatomy of the Sense Organs.—A study of the sense organs by means of dissections and prepared slides, supplemented by models and prepared dissections.

2 to 4 units, autumn and *winter quarters (STOLTENBERG) (autumn) TTh 8–11; (winter) by arrangement
winter, 3; spring, 2

111. Physical Anthropology.—Practical instruction in anthropometric methods, and lectures on anatomical variation and heredity in man.

(DANFORTH) By arrangement

112. Human Embryology.—This course will be offered as soon as adequate provision can be made. Course 106 in the Department of Zoology is a prerequisite.

213. Investigation and Special Work.—The facilities of the laboratory are always at the disposal of properly qualified students or physicians who desire to undertake the investigation of some problem in gross or microscopic anatomy or in embryology. This work must be arranged for individually, but may be started at any time.

autumn, 2; summer, 1

214. Conferences in Anatomy.—Special topics are assigned and outlines and references provided for discussion three hours weekly.

3 units (MEYER) By arrangement

REQUIREMENTS FOR ADVANCED DEGREES.—In addition to the requirements published in the University *Register* and the *Announcement of the School of Medicine,* students desiring to be admitted to candidacy for the degree of Master of Arts in Anatomy must have satisfactorily completed one year's work in histology and microscopic anatomy, at least one quarter of embryology, and possess a knowledge of laboratory technique

adequate for the investigation to be undertaken. For admission to candidacy for the degree of Doctor of Philosophy a reading knowledge of both French and German is further required.

Deposit Fees.—A deposit of $2.50 for microscopes and of $10 to cover damage to or loss of bones, is required of all students registering in gross and in microscopic anatomy. This sum, less charges for damage or loss, is refunded at the close of the academic year, except in the case of students discontinuing work. These may obtain the refund at the end of the quarter. Students who are not registering in medicine are charged a fee of $15 per quarter for course 103, and $5 for each of the other courses.

APPLIED MATHEMATICS

Leander Miller Hoskins, William Albert Manning, Halcott Cadwalader Moreno, Sidney Dean Townley, Professors.
James Thomas Matthews, Acting Assistant Professor (Summer Quarter).
Kenneth K. Kelley, Instructor.
Beatrice Alethea Fenner, Harold Louis Rorden, Milton Lawrence Wiedman, Assistants in Instruction.

The courses of instruction offered by the Department of Applied Mathematics fall into two groups. The first group consists of strictly mathematical courses planned primarily to meet the needs of students of Engineering, the second of courses in Astronomy and Geodesy.

In the courses preparatory to Engineering the aim is to make the instruction practical in the sense of furnishing thorough drill on fundamental principles and much practice in their application. Emphasis is laid upon accuracy and system in the solution of numerical problems. Students whose training in arithmetical work has been deficient, or who are otherwise inadequately prepared, or who lack aptitude for mathematical study, can not pursue these courses successfully.

Students intending to major in any engineering department should have entrance credit in the preparatory subjects of algebra (two units), plane and solid geometry, and plane trigonometry. This preparation is regularly required for admission to any of the following courses except Descriptive Astronomy.

The mathematics regularly required of students in Engineering consists of courses 1, 2, and 3. Each of these courses runs two quarters, 5 unit-hours per quarter, and they will regularly be taken in the order *1a, 1b, 2a, 2b, 3a, 3b*. It is possible, however, to take *2b* and *3a* simultaneously, but this can be permitted only in the case of students having thoroughly satisfactory records in the preceding courses. Students whose preparatory records show excellence, not only in mathematics, but in general training, may, with the approval of the instructor, enter course *1b* without having taken *1a*.

1. Elementary Analysis.—This course presupposes a familiarity with the elements of algebra and trigonometry, and is designed to strengthen

the command of the student over these subjects and to give him a working knowledge of the method of coördinate geometry. Readiness in the application of the fundamental principles of algebra, trigonometry, and geometry to the solution of numerical problems is of fundamental importance to the engineer, and this side of the work is emphasized throughout the course.

1a. First half of course 1.
5 units, autumn and *winter quarters (MANNING, MORENO, KELLEY)
autumn, 118 (3 sections); winter, 49 (2 sections)

1b. Second half of course 1.
5 units, winter, *spring, and *autumn quarters (MANNING, MORENO, KELLEY)
autumn, 61 (2 sections); winter, 90 (3 sections); spring, 36; summer, 11

2. Calculus.—An elementary course in Differential and Integral Calculus, in which emphasis is laid on fundamental principles and simple applications.

2a. First half of course 2.
5 units, spring, *summer, *autumn, and *winter quarters (MORENO, MANNING, KELLEY)
autumn, 44; winter, 32; spring, 65 (2 sections); summer, 8

2b. Second half of course 2.
5 units, autumn, *winter, *spring, and *summer quarters (MANNING, HOSKINS, MORENO)
autumn, 74 (2 sections); winter, 47; spring, 40; summer, 5

3. Theoretical Mechanics.—An elementary course, covering the fundamental principles of Statics, Kinematics, and Kinetics, restricted mainly to coplanar forces and to plane motion of particles and of rigid bodies. The course is designed as preparation for the courses in Applied Mechanics taken by students of Engineering, but is open to all whose preparation includes the equivalent of courses 1 and 2.

3a. First half of course 3.
5 units, winter and *spring quarters (HOSKINS) (winter) MTWThF 10
(MANNING) (spring) MTWThF 9
winter, 91; spring, 37

3b. Second half of course 3.
5 units, spring and *autumn quarters (HOSKINS) MTWThF 10
autumn, 18; spring, 82

100. Engineering Mathematics.—This course is supplementary to the usual undergraduate course in Calculus, is intended for the student in Electrical Engineering, and is a prerequisite to course 210 in Electrical Engineering. It includes those parts of complex numbers, infinite series, hyperbolic functions, differential equations, and Fourier's Series, that are helpful in understanding the power line equations. Prerequisite: Applied Mathematics *2a* and *2b* and some knowledge of alternating currents.
3 units, autumn quarter (MORENO) MWF 11
autumn, 28

101a. Nomographs.—An elementary course on the construction and use of nomographs, including some other graphical methods.
2 units, autumn quarter (MORENO) TTh 11
autumn, 16; winter, 1

101b. Nomographic Drawing.—A course in advance drafting supplementary to course 101*a*. Prerequisite: Engineering 1 and 2.
1 or 2 units, autumn quarter (THOMAS) Hours and units by arrangement
autumn, 2

110. Advanced Calculus.—A course supplementary to Applied Mathematics *2a* and *2b*. Prerequisite: Grade B in Applied Mathematics *2a* and *2b*.

3 units, spring quarter (MORENO) [Not given in 1925–26]
spring, 11

115. Differential Equations.—A drill course in which special emphasis is placed on the setting up of the differential equation. The examples are drawn from a large variety of sources. Prerequisite: Grade B in Applied Mathematics *2a* and *2b*.

3 units, spring quarter (MORENO) [Not given in 1924–25]

125. Applications of Mathematics to Chemistry.—Applications of calculus to problems of chemistry, intended for those students who have taken or who are taking Physical Chemistry. Prerequisite: Grade B in Applied Mathematics *2a* and *2b*.

3 units, autumn quarter (KELLEY) [Not given in 1924–25]

145. Reading Course.—Reading courses in various branches of Applied Mathematics may, upon consultation with the instructor, be arranged for students who have special problems or interests. Prerequisite: Grade B in Applied Mathematics *2a* and *2b*.

1 or 2 units (KELLEY, MORENO, TOWNLEY) Hours by arrangement

ASTRONOMY AND GEODESY

Courses 154 and 156 are designed especially to meet the needs of students who have time for only a general knowledge of Astronomy. Course 150 is intended for students of Engineering and Geology who desire a working knowledge of practical astronomy. The other courses are intended for students who wish to prepare themselves for astronomical or geodetic work.

50. Descriptive Astronomy.—This course consists of a general survey of the various branches of astronomy, including a study of the celestial sphere, the bodies of the solar system, comets, the fixed stars, and other heavenly bodies.

5 units, winter and *summer quarters (TOWNLEY)
winter, 92; summer, 12

51. Observational Astronomy.—Study of constellations and various astronomical bodies: Elementary methods of determining latitude and longitude. One afternoon or evening per week. Supplementary to course 50.

1 unit, any quarter (TOWNLEY)
autumn, 2; winter, 22; spring, 4; summer, 3

150. Practical Astronomy.—The theory and practice of the determination of latitude, azimuth, time, and longitude, with sextant and engineer's transit. Intended especially to meet the requirements of students of civil engineering, geology, and navigation. Course 1, differential calculus, and surveying are prerequisites.

3 or 4 units, spring quarter (TOWNLEY)
spring, 5

151. Advanced Practical Astronomy.—A continuation of course 150. Precise methods of determining time, latitude, etc., by means of the universal instrument.

Any quarter (TOWNLEY) Hours and units by arrangement

152. Adjustment of Observations.—Theory of the method of least squares, with applications. Credit in course 2 or its equivalent is a prerequisite.

3 units, autumn quarter (TOWNLEY) By arrangement
autumn, 2

153. Geodesy.—Study of the form and dimensions of the earth and the practical methods of geodetic work. Courses 150 and 152 are prerequisites.

3 units, autumn quarter (TOWNLEY) By arrangement

154. Variable Stars.—Consideration of the different classes of variable stars, methods of observation and construction of light curves. Course 50 is a prerequisite.

3 units, spring quarter (TOWNLEY)
spring, 1

155. Celestial Mechanics.—A study of the motions of the bodies of the solar system under Newton's universal law of gravitation. Courses 1, 2, 3, 50 in Applied Mathematics and course 150 in Mathematics are prerequisites.

3 units, autumn quarter (TOWNLEY)

156. History of Astronomy.—A survey of the progress of Astronomy from the time of the Greeks to the present. Course 50 is a prerequisite.

3 units, autumn quarter (TOWNLEY)
autumn, 6

BACTERIOLOGY AND EXPERIMENTAL PATHOLOGY

WILFRED HAMILTON MANWARING, Professor.
EDWIN WILLIAM SCHULTZ, Associate Professor.
JOHN EDWARD BLAIR, Instructor.

1. General Bacteriology.—This course covers a variety of non-pathogenic forms, including those related to the fertility of the soil and to the dairy and other industries, as well as pathogenic forms concerned in human, animal, and plant diseases. The course is open to Lower Division students who have had General Biology and General Chemistry. The class is limited to thirty.

5 units, winter quarter (BLAIR) spring quarter (SCHULTZ) Lec. MWF 1; Lab. MWF 2–4
winter, 13; spring, 8

102. Sanitary Bacteriology.—A study of the more important pathogenic bacteria, with special reference to sanitation and preventive medicine. A considerable portion of the course is devoted to the examination of water and milk supplies and to the bacteriology and mycology of foods. Open to non-medical students who have had General Biology and General Chemistry.

5 units, summer quarter (BLAIR) Lec. MWF 1; Lab. MWF 2–4
summer, 10

201. Medical Bacteriology.—A course devoted chiefly to the pathogenic bacteria, with emphasis on the laboratory procedures employed in the

diagnosis of bacterial infections. Prerequisites: Chemistry 127, Physiology 103, Zoology 104, or equivalents.

9 units, autumn quarter (SCHULTZ, BLAIR) Lec. MTWThF 1; Lab. MTWThF 2–4
autumn, 42

202. Experimental Bacteriology.—An advanced course in bacteriologic methods, including the use of animals, study of lesions, etc. Prerequisite: course 201.

10 units, winter quarter (SCHULTZ) Lec. MTWThF 8; Lab. MTWThF 1–4
winter, 14

203. Principles of Immunity.—Introductory lectures on immunity and serologic methods. Must be preceded or accompanied by course 201.

2 units, spring quarter (SCHULTZ) TTh 8
spring, 18

204. Serology.—A laboratory study of antitoxins, bacteriolysins, hemolysins, agglutinins, precipitins, opsonins, complement deviation, anaphylaxis, etc. Prerequisite: course 203.

5 units, spring quarter (SCHULTZ) By arrangement
spring, 14

209. Journal Club.—A study of the current literature in bacteriology and immunology, with weekly conferences.

2 units, any quarter (DEPARTMENT STAFF) By arrangement
autumn, 1

210. Advanced Work, Research.

5 to 10 units, any quarter (MANWARING, SCHULTZ, BLAIR) By arrangement
autumn, 7 (2 groups); winter, 7 (2 groups); spring, 6 (2 groups); summer, 3

FEES.—Courses 201 and 204, $20; course 202, $15; courses 1 and 102, $5 each. Students pay for breakage and animals used.

LOWER DIVISION PREREQUISITES.—The completion of the following Lower Division courses, or their equivalents: Physics 1, 2, 3, 20; Chemistry 7, 9 (or 1, 2, 3), 4, 20; Zoology 1 (or General Biology 1, 2, 3), 104; Bacteriology 1; reading knowledge of German or French.

RECOMMENDED DEPARTMENTAL CURRICULUM.—Third year: Chemistry 127, 141, 142, 143, 144; Physiology 103; Bacteriology 102; Anatomy 101. Fourth year: Bacteriology 201, 202, 203, 204, 209, 210; Chemistry 121, 123, or equivalents.

ADVANCED DEGREES.—Applicants for the degree of Master of Arts in Bacteriology and Experimental Pathology will be expected to complete, in addition to the requirements for the Bachelor's degree, the equivalent of forty-five units' work in the University, of which approximately two-thirds must be in the department. The department work will include a thesis based on laboratory work, and courses 201, 203, 204, and 209, if not included in the undergraduate work.

Candidates for the degree of Doctor of Philosophy in Bacteriology and Experimental Pathology, after the completion of the equivalent of the requirements for the degree of Master of Arts, will follow such courses as are approved by the department, subject to general University regulations.

BIBLICAL HISTORY AND LITERATURE

DAVID CHARLES GARDNER, Chaplain.
HENRY RUSHTON FAIRCLOUGH, AUGUSTUS TABER MURRAY (Classical Literature), HENRY DAVID GRAY (English).

[**New Testament Literature.**—Lectures on the origin, authorship, and characteristics of certain books of the New Testament. (Classical Literature C36.)
3 units, spring quarter (MURRAY) MWF 8]
spring, 54

[**English Bible.**—Representative portions of the Bible studied as literature. Not open to first-year students. (English 24.)
3 units, autumn quarter (GRAY) MWF 10]
autumn, 50

3. The Background of Christianity.—A study of the development of the religious beliefs and ethical ideals of the Old Testament.
2 units, autumn quarter (GARDNER) TTh 11
autumn, 50

4. The Life of Christ.—A study of the main facts of the life of Jesus as found in the four gospels, with such references to the political, social, and religious environment as are necessary to make his life and teaching intelligible.
2 units, winter quarter (GARDNER) [Not given in 1924–25]

5. The Ethics of Christ.—An analysis of the principles of Christian ethics as disclosed in the gospels, and the application of Christ's teaching to modern life.
2 units, spring quarter (GARDNER) [Not given in 1924–25]

BIOLOGICAL SCIENCES

SCHOOL OF BIOLOGY

CARL LUCAS ALSBERG, RENNIE WILBUR DOANE, WALTER KENRICK FISHER, FRANK MACE MCFARLAND, ERNEST GALE MARTIN (Chairman), WALTER RICHARD MILES, EDWIN WILLIAM SCHULTZ, JAMES PERRIN SMITH, JOHN OTTERBEIN SNYDER, ROBERT ECKLES SWAIN, Executive Committee.

The School of Biology includes the following departments or subjects within departments: Anatomy, Bacteriology and Experimental Pathology, Biochemistry, Botany, Food Research, Hopkins Marine Station, Paleontology, Physiology, Psychology, and Zoology. Programs are offered leading to the degrees of A.B. and A.M. in Biology. These are supplementary to the programs offered by the various individual departments of the school.

The requirements for the A.B. degree in Biology are as follows: Sixty units of work in the Biological Sciences, so chosen that there shall be fifteen units from each of three departments of the school. Provision is made for modifying the fifteen unit departmental require-

ment to the effect that upon completion of ten units in any department the student may substitute work in another department upon securing the consent of both departments concerned and of his adviser in the school. The general program must be properly approved. Students are urged to include a summer or other quarter of work at the Hopkins Marine Station. One or more college courses in mathematics will be found helpful.

Candidates for the A.M. degree in Biology must fulfill the conditions outlined in the Graduate Study Bulletin, including the completion of a program of advanced study in Biological Science which has been submitted to, and approved by, the Executive Committee of the School of Biology at the time of registration for the degree.

GENERAL COURSES

The courses in General Biology are under an Administrative Committee consisting of Professors BURLINGAME (Executive Director), HEATH, E. G. MARTIN, and PEIRCE.

These courses attempt to present to beginners by means of lectures, illustrations, demonstrations, and laboratory exercises the fundamentals of Biology in its broadest sense. They include a study of: (1) Protoplasm, the common living substance of all plants and animals; (2) The organization of cells and their combination into multicellular organisms; (3) The role of green plants in the manufacture of foods; (4) The transformation of foods into the living substance of plants and animals; (5) The liberation and utilization of the chemical energy of foods, chiefly by animals; (6) The sensitivity of protoplasm and its role in correlating the internal processes of the organism on the one hand and relating and adjusting it to its environment on the other; (7) Disease and death of organisms; (8) The enrichment of the soil through the decomposition of organic remains and nitrogen fixation; (9) The perpetuation of the species through reproduction; (10) The laws and mechanism of heredity; (11) Evolution and adaptation of organisms; (12) The factors controlling the ecological and geographical distribution of organisms; and (13) Man's place in nature.

In the laboratory course representative one-celled and many-celled plants and animals are studied with special emphasis on the nature and organization of protoplasm. The organism is examined in its character of chemical machine, synthesizing complex compounds, as in green plants, and decomposing them with liberation of energy, as in animals. Finally the relations of living things to their non-living environment and to each other are considered.

No prerequisites, and required of all Lower Division students who do not present a high-school equivalent or elect an equal amount of work in one of the biological departments. (See requirements in Biological Sciences in Lower Division Manual.) Nine units as follows:

1. General Biology.—Lectures.
3 units, autumn and *winter quarters (BURLINGAME, DOANE, HEATH, IRVING, PEIRCE, WILBUR) (autumn) MWF 8; (winter) TThS 8
autumn, 241; winter, 150

2. General Biology.—Laboratory.
3 units, autumn, *winter, and *spring quarters (VESTAL, IRVING, and assistants) MWF 1–4, or TTh 1–4 and S 8–11
autumn, 99 (2 sections); winter, 121 (2 sections); spring, 72

3. General Biology.—Lectures.
3 units, winter and *spring quarters (Abrams, Burlingame, Danforth, Heath, Irving, Martin, Terman, Vestal, Wilbur) MWF 8
winter, 213; spring, 147

BIOLOGY

Lawrence Becking, Arthur Gibson Vestal, Assistant Professors.

101. Economic Botany.—A general survey of the subject, dealing chiefly with the more general aspects of a technical study of plant foodstuffs, fibers, wood, drugs, dyes, poisons, spices, resin, rubber, etc. The laboratory work includes some standard methods of microscopical and microchemical analysis of economic plant products. Prerequisites: 9 units of chemistry and one laboratory course in biology.
5 units, spring quarter (Becking) Lec. TTh 1–2; Lab. MWF 1–4

102. Elementary Limnology.—Designed especially for sanitary engineers, health officers, physicians, and biochemists. Regular methods of plankton analysis, determination of the significant properties of water in relation to plants and animals, visits to ponds, water supplies, etc. Whipple's "Microscopy of Drinking Water" will be used as a guide. One lecture, one laboratory period, one field trip each week.
3 units, winter quarter (Peirce, Becking) Th 8–11, W 1–5

103. Ecology: Environmental Relations.—Lectures on the general subject, with individual field and laboratory study of a particular aspect of local ecology.
5 units, spring quarter, or other quarter by arrangement (Vestal)
spring, 1 Lecture MWF 11

113. Microörganisms: Laboratory.
autumn quarter (Vestal)
autumn, 1

201. Economic Botany: Special Problems.—To meet the requirements of the individual student who wants to carry out advanced work in this line either as a major in Botany, Chemistry, Economics, or Civil Engineering (lumber).
winter quarter (Becking) By arrangement
winter, 11

203. Ecology: Special Problems.—Research in ecological relations of local plant or animal communities, or of particular groups of organisms.
(Vestal) By arrangement
spring, 1

BOTANY

Douglas Houghton Campbell, LeRoy Abrams, George James Peirce, Professors.
Leonas Lancelot Burlingame, Associate Professor.
James Ira Wilson McMurphy, Assistant Professor.
Samuel Bonsall Parish, Lecturer on California Botany.

The Department of Botany aims to provide instruction for two classes of students: (*a*) Students who wish to know something of the structures, life processes, relationships, and uses of plants, and to gain some famili-

arity with the methods of scientific work; and (*b*) Professional students who look forward to investigation, teaching, or the technical applications of Botany in Plant Breeding, Forestry, Agriculture, Horticulture, Plant Pathology, Sanitation, and Public Health. Courses 1, 2, 3, which present the elements of the more important divisions of botanical study, are designed to meet the needs of both groups of students. Courses 10 to 113 are open to students who have had course 1, 2, or 3, or the equivalent. It is the aim of these courses to give the student, by means of lectures and references to the literature, a general and summary account of the present state of knowledge, and in the laboratory and the field to afford him an opportunity for a personal acquaintance with plants themselves. Students who have had two or more years' work may, after consultation, be registered in courses 114, 120, 130, 142, 152. The resources of the department afford exceptional opportunity for investigation in a number of fields. Properly qualified students desiring to undertake such investigation should register in courses 210, 220, 230, 240, 250, after consultation with the instructor concerned.

Major students in the department will be expected to complete sixty units in the department, and Zoology 1. The sixty units should include courses 1, 2, 3, 10, 11, 20, or 21, 110 or 111, 30 or 31, 140 or 141. It is strongly recommended that courses 10, 11, 110, 111 be taken in the second year.

The Teacher's Recommendation in the University is based on the satisfactory completion of a minimum of two majors, or one major and two minors. A minor in Botany consists of Elementary Botany (courses 1, 2, 3) and one advanced course, chosen from the following: 20, 110, 30, 140, 141. A major must include the following: Elementary Botany (1, 2, 3), General Fungi (20), General Morphology (10 or 11, 110 or 111 or 112), Systematic Botany (30), Physiology (140 or 141), a total of 35 units.

Students looking to Forestry or Agriculture as a profession should include courses 20, 22, 30, 31, 140, 141 as part of their preparation, and the following subjects in other departments: elementary physics, chemistry, geology and physiography, zoology, entomology, economics, and applied mathematics. They should also be able to read French and German.

Fees are charged in the various courses approximately sufficient to cover the cost of the perishable materials and syllabus used, as follows: Courses 1, 2, 3, 10, 11, 110, 111, 112, 30, 31, 151, 120, 114, 130, 152, 210–250, $3.00 each; courses 20, 21, 22, 140, 141, 113, 142, $5.00 each; 150, $1.00.

The Dudley herbarium, so named in honor of the late Professor Dudley, who left his entire collection to the University, contains, in addition to numerous smaller gifts, exchanges, and purchases, the following herbaria: The Dudley herbarium of about 60,000 specimens, the Harvey herbarium of about 75,000 specimens, the Parish herbarium of about 35,000 specimens, the Rattan herbarium of about 5,000 specimens, and the Abrams herbarium of about 15,000 specimens. It also contains about 5,000 specimens from the Congdon herbarium, and the Harkness collection of hypogeous fungi. These collections, with the exception of the Harvey herbarium, which is mainly Old-World, are rich in material from western North America and offer unusual facilities for the study of the flora of this region.

1. Elementary Botany: Morphology.—This course is designed to be a foundation course. It aims to present a comprehensive view of the entire plant kingdom from the lowest to the highest. The individual types studied will be chosen with reference to their suitability to illustrate the larger steps through which plants have passed in the course of evolution. The hour preceding the lecture on Tuesdays and Thursdays will be spent in the laboratory, in study and conference under supervision.

5 units, autumn quarter (CAMPBELL, BURLINGAME, and assistants) Conference TTh 1:05; Lec. TTh 2:05; Lab. MWF 1:05–3:45

autumn, 50; summer, 11

2. Elementary Botany: Systematic.—Study of the fundamental principles of plant relationships, with special reference to the higher plants. Through the study of representative species and supplementary classification, it is intended to acquaint the student with the more important families of flowering plants.

5 units, winter quarter (ABRAMS, and assistants) Lec. TTh 1:05; Lab. MWF 1:05–3:05.

winter, 33

3. Elementary Botany: Anatomy and Physiology.—Study of the structure, mainly of the land plants, with a view to understanding the vital processes of living plants and their relations to man. The laboratory work will be supplemented by field work.

5 units, spring quarter (PEIRCE, and assistants) Lec. TTh 1:05; Lab. MWF 1:05–3:45

spring, 17

10. Fresh-Water Algae.—Lectures, readings, and laboratory work on the morphology and classification of Blue-Green and Green Algae. Prerequisite: Course 1.

5 units, winter quarter (CAMPBELL) [Not given in 1924–25]

[See Economic Biology 102.]

11. Marine Algae.—Lectures, readings, and laboratory work on the morphology and classification of the Brown and Red Algae. This course is a continuation of course 10, but may be taken independently. Prerequisite: Course 1.

5 units, spring quarter (CAMPBELL) [Not given in 1924–25]

20. General Fungi.—Lectures and laboratory work on the morphology and classification of Fungi. Prerequisite: Course 1.

5 units, autumn quarter (MCMURPHY)

autumn, 6

21. Fleshy Fungi.—Lectures, laboratory, and field work on the fleshy Fungi ordinarily known as mushrooms, toadstools, etc. Prerequisite: Course 1.

5 units, winter quarter (MCMURPHY) [Not given in 1924–25]

22. Plant Pathology.—Lectures, laboratory, and field work on fungous and other plant diseases. Open only to students who have had course 20 or its equivalent.

5 units, spring quarter (MCMURPHY) Lec.-Lab. MTWThF 1:05–3:45

spring, 4

30. Monocotyledons.—Lectures, laboratory, and field work on the classification and phylogeny of the Monocotyledons. Prerequisite: Course 2 or its equivalent.

5 units, spring quarter (ABRAMS) [Not given in 1924–25]

31. Dicotyledons.—Lectures, laboratory, and field work on the classification and phylogeny of the Dicotyledons. Prerequisite: Course 2 or its equivalent.

5 units, spring quarter (Abrams) Lec. F1:05; Lab. MTWTh 1:05–3:45
spring, 7

32. Geographical Distribution and Forest Botany.—Study of the trees and shrubs, and the principles of geographical distribution which they illustrate. The laboratory work will be supplemented by work in the field and in the Arboretum. Prerequisite: Course 2 or its equivalent.

5 units, autumn quarter (Abrams, Campbell)
Lec. W 1:30; Lab. and Field Work MTThF 1:30–4
autumn, 1

110. Bryophytes.—Lectures and laboratory work on the special morphology and classification of the Bryophytes (Mosses). Prerequisite: Course 1.

5 units, winter quarter (Campbell) Lec. F 1:05; Lab. MTWTh 1:05–3:45
winter, 5

111. Pteridophytes.—Lectures and laboratory work on the special morphology and classification of Pteridophytes (Ferns, Horsetail, Club-mosses). This course is a continuation of course 110. Prerequisite: Courses 1 and 110.

5 units, spring quarter (Campbell) Lec. F 1:05; Lab. MTWTh 1:05–3:45
spring, 4

112. Seed Plants.—Lectures and laboratory work on the general morphology and anatomy of Gymnosperms and Angiosperms. This course is intended to continue and round out the work of courses 10, 11, 20, 110, 111. It aims to give the student an insight into the origin and relationships of the larger groups of Seed Plants through a study of their Morphology, Embryology, and Comparative Anatomy. Prerequisite: Courses 1 and 110 or 111.

5 units, winter quarter (Burlingame) By arrangement
winter, 2 (2 groups)

113. Cytology and Technique.—1. Lectures on the structures and functions of the cell, with special reference to the mechanism of inheritance and the practical consequences thereof in plant breeding. 2. Laboratory exercises in (*a*) histological and cytological technique (killing and fixing, embedding, sectioning, staining, etc.), (*b*) study of selected slides illustrating the lecture topics, mitosis, gametogenesis, sporogenesis, etc.

5 units, winter quarter (Burlingame) By arrangement
autumn, 5 (2 groups); winter, 5

114. Advanced Archegoniates.—This course offers opportunity for individual students to continue (along lines of special interest) the work begun in course 110 or 111. Prerequisites: Course 1 and course 110 or 111 or equivalents.

(Campbell) By arrangement
autumn, 1

120. Advanced Plant Pathology.—Field and laboratory work on special diseases.

spring and summer quarters (McMurphy) By arrangement
spring, 2; summer, 3

130. Advanced Systematic Botany.—Special problems in taxonomy and geographical distribution, with reference to methods of investiga-

tion. This course is intended primarily as preliminary training for research work in systematic botany.
(Abrams) By arrangement
autumn, 1

140. Experimental Plant Physiology.—The production and use of foods. Lectures, laboratory work, and reading. Prerequisite: Course 3 or its equivalent. Knowledge of the elements of physics and chemistry is essential.
5 units, autumn quarter (Peirce)
autumn, 6

141. Experimental Plant Physiology.—Lectures, laboratory work, and reading. Prerequisite: Course 3 or its equivalent. Knowledge of the elements of physics and chemistry is essential.
5 units, winter quarter (Peirce) Lec. TTh 9; Lab. MWF 8–10
winter, 6

142. Advanced Physiology.—Experimental study of a single problem by one or more individuals. Prerequisites: Courses 1 and 3 and courses 140 and 141, or their equivalents.
(Peirce) By arrangement
autumn, 2

150. Genetics.—Lectures on inheritance in plants, animals, and man. Prerequisite: Botany 1, Zoology 1, General Biology, or equivalents.
3 units, spring quarter (Burlingame) MWF 10
spring, 4

151. Plant Breeding.—Garden and laboratory work illustrative of the principles and practices underlying the propagation and improvement of plants. Prerequisite: Botany 1, Zoology 1 or General Biology, Botany 150, or equivalents.
2 units, spring quarter (Burlingame)
spring, 3

152. Advanced Genetics.—Lectures, assigned reading, and conferences. Primarily for upper division and graduate students in the School of Biology, or others with similar training.
autumn quarter (Burlingame) By arrangement

153. Problems in Genetics and Plant Breeding.—This course offers an opportunity to continue advanced work along the lines of course 151.
Any quarter (Burlingame) By arrangement

210. Research in Morphology.—Students desiring to do original investigation in morphology must have had adequate training in the appropriate courses in special morphology or their equivalents.
(Campbell) By arrangement
autumn, 2; winter, 2

220. Research in Plant Pathology.
(McMurphy) By arrangement
autumn, 1; spring, 1

230. Research in Taxonomy and Geographical Distribution.
(Abrams) By arrangement
autumn, 3; winter, 1; summer, 1

240. Research in Physiology.
(Peirce) By arrangement
autumn, 1; winter, 2; summer, 1

250. Research in Cytology and Genetics.—For students who wish to undertake original work in genetics or cytology. Prerequisites are an

adequate training in general botany and such special courses as the nature of the work makes necessary.

(Burlingame) By arrangement
winter, 1; summer, 1

CHEMISTRY

Robert Eckles Swain, Edward Curtis Franklin, Lionel Remond Lenox, John Pearce Mitchell, Stewart Woodford Young, Professors.
Alexander Findlay, Acting Professor.
Carl Lucas Alsberg, Director, Food Research Institute.
William Henry Sloan, Associate Professor.
Albert Frederick O. Germann, Acting Assistant Professor.
Francis William Bergstrom, William Leroy Burdick, †Charles Doak Lowry, Jr., George Sutton Parks, Norris Watson Rakestraw, Robert Nicholas Wenzel, Instructors.

1. Elementary Inorganic Chemistry, Lectures.—Comprising a systematic treatment of elementary principles and of the properties of the more important elements and their compounds. Open to all students; particularly for students without entrance credit in Chemistry. Students without entrance credit in Chemistry are required to enroll in laboratory course 2 concurrently.

3 units, autumn and *winter quarters
(autumn) Lec. MWF 8, (Mitchell); (winter) Lec. TThS 8, (Findlay)
autumn, 120; winter, 56

2. Elementary Inorganic Laboratory.—In connection with course 1. Illustrating fundamental laws and principles of elementary chemistry. Required of students who have not received entrance credit in Chemistry.

3 units, autumn and *winter quarters (Mitchell, Wenzel)
MTW 1–4, or ThF 1–4, and S 9–12
autumn, 60; winter, 25

3. Elementary Inorganic Chemistry.—Continuation of Chemistry 1. Open to students who have had courses 1 and 2, or their equivalents.

3 units, spring quarter (Findlay) MWF 8
spring, 96

4. General Inorganic Laboratory.—Inorganic preparations and general chemistry. For students with entrance credit or Chemistry 2.

3 units, every quarter (Mitchell, Wenzel)
MTW 1–4, or ThF 1–4, and S 9–12
autumn, 75; winter, 56; spring, 71; summer, 12

7. General Inorganic Chemistry.—Lectures reviewing elementary principles and covering a systematic treatment of important theories and the properties of the more important elements and their compounds. Open only to students who have offered entrance credit in Chemistry or its equivalent. Laboratory course 4 is planned to be taken in connection with lecture courses 7 and 9.

2 units, autumn and *summer quarters (Mitchell, Findlay) TTh 8
autumn, 187; summer, 20

† Absent on leave, 1924–25.

9. General Inorganic Chemistry.—Continuation of Chemistry 7. Open to students who have completed course 7 or its equivalent.
2 units, winter and *summer quarters (MITCHELL, FINDLAY) TTh 8
winter, 187 (2 sections); summer, 20

20. Qualitative Analysis, Lecture and Laboratory.—Open to students who have completed courses 3 or 9, and 4.
5 units, autumn, *winter, and *spring quarters (LENOX, BERGER) 4 afternoons
autumn, 44; winter, 26; spring, 39

101. Principles of Inorganic Chemistry.—Discussion of the elements of chemical theories and of important generalizations in the field of inorganic chemistry. Prerequisite: Chemistry 3 or 9, or an equivalent.
5 units, autumn quarter (SWAIN) MTWThF 11
autumn, 42

105. Physical Chemistry for Students of Biology and Medicine.—A discussion of the more important laws and theories of physical chemistry in relation to their bearing on biochemical processes.
2 units, spring quarter (FINDLAY) MW 10
spring, 35

111. Quantitative Analysis.—Lecture course. Must be taken in conjunction with course 112.
1 unit, autumn, *winter, *spring, and *summer quarters
(SLOAN, BURDICK) TTh 3:05
autumn, 41; winter, 26; spring, 15; summer, 23

112. Quantitative Analysis.—Introductory. Training in manipulation in gravimetric and volumetric methods. Open to students who have completed course 20. Not open to first-year students. Given in conjunction with course 111.
4 or 5 units, autumn, *winter, *spring, and *summer quarters
(SLOAN, BURDICK) 4 or 5 afternoons
autumn, 42; winter, 27; spring, 12; summer, 23

114. Quantitative Analysis.—A continuation of course 112, principally gravimetric methods.
5 units, autumn, *winter, and *spring quarters (SLOAN, BURDICK) 5 afternoons
autumn, 2; winter, 4; spring, 3; summer, 1

121. Organic Chemistry.—Lectures and reviews on the chemistry of carbon compounds. Open to students who have completed course 101 or its equivalent.
5 units, winter quarter (FRANKLIN) MTWThF 11
winter, 46

122. Organic Preparations.—Preparation and study of typical carbon compounds. Open in connection with courses 121 and 123 to students who have completed course 20.
5 units, winter, *spring, and *summer quarters (FRANKLIN, BERGSTROM) 5 afternoons
winter, 5; spring, 20; summer, 7

123. Organic Chemistry.—Continuation of Chemistry 121.
5 units, spring quarter (FRANKLIN) MTWThF 11
spring, 40

124. Advanced Organic Laboratory.—Organic analysis. Training in searching the chemical literature and in making special preparations. Open to students who have completed Chemistry 122, or equivalent, and who have some knowledge of German.
5 units, winter and *summer quarters (BERGSTROM) Hours by arrangement
winter, 1; spring, 3; summer, 4

125. Advanced Organic Lectures.—Advanced topics in organic chemistry, including stereochemistry. Open to students who have completed courses 101, 121, 123.

3 units, spring quarter in alternate years (FRANKLIN)
[Not given in 1924–25]

127. Elementary Organic Chemistry.—A condensed lecture course in organic chemistry, offered particularly for students in biology and medicine, but open to all students who have completed course 20. Not for Chemistry majors.

5 units, winter and *summer quarters (BERGSTROM) (winter) MTWThF 8
(summer) MTWThF 10
winter, 28; summer, 12

128. Organic Chemistry.—A laboratory course designed especially to accompany course 127. Not for Chemistry majors.

3 units, winter quarter (BERGSTROM) 3 afternoons
winter, 4; spring, 4; summer, 2

141. Biochemistry.—Lectures on the chemical composition of the tissues and secretions of the animal body. Open to students who have completed courses 121 and 123, or 127.

2 units, autumn and *summer quarters (SWAIN, RAKESTRAW) TTh 8
autumn, 73; summer, 29

142. Biochemistry.—A laboratory course including a preliminary study of the proteins, carbohydrates, and fats, and the action of the various digestive fluids upon them; followed by a chemical examination of the bile, blood, milk, and the chief tissues of the animal body. In connection with course 141. Prerequisites: Courses 123 (or 127), 111 and 112.

2 or 3 units, autumn and *summer quarters (SWAIN, RAKESTRAW)
2 or 3 afternoons
autumn, 75; winter, 3; summer, 19

143. Biochemistry.—Continuation of course 141, with particular reference to such topics as the nutrition, metabolism, and the waste products of the human organism.

2 units, winter and *summer quarters (SWAIN, RAKESTRAW) TTh 8
winter, 69; summer, 25

144. Biochemistry.—Continuation of course 142. The work of this course is devoted chiefly to the quantitative analysis of milk, blood, and urine.

2 or 3 units, winter and *summer quarters (RAKESTRAW) 2 or 3 afternoons
winter, 72; spring, 3; summer, 18

146. Special Methods in the Analysis of Blood and Urine.—Prerequisites: Courses 143 and 144.

2 to 5 units, winter, *spring, and *summer quarters (RAKESTRAW)
2 to 5 afternoons
winter, 7; spring, 4; summer, 3

147. Chemistry of Respiration and Nutrition.—A lecture course dealing with the chemical processes upon which the ordinary processes of life, especially of animals, are based. Open to students who have completed Biology 1 and Chemistry 123.

2 units, autumn quarter (ALSBERG) TTh 11
autumn, 10

151. Advanced Inorganic Chemistry.—Advanced topics in inorganic chemistry, including the rarer elements, structure of the atom, radio-

activity, catalysis, and the chemistry of the higher order compounds.
2 units, spring quarter (SWAIN) TTh 11
spring, 10

157. Chemistry of Gases.—A lecture course dealing with the history, preparation, purification, and physical and chemical properties of gaseous substances. Open to students who have completed course 101.
2 units, winter quarter (GERMANN) TTh 10
winter, 5

171. General Physical Chemistry.—Lectures covering as far as possible the whole field of physical chemistry. Open to students who have completed Chemistry 101, 111, 112, 121, course 20 in Mathematics, and courses 1, 2, 3, 20, in Physics, or their equivalent.
5 units, autumn quarter (YOUNG) MTWThF 8
autumn, 28; winter, 1

173. General Physical Chemistry.—Continuation of Chemistry 171.
5 units, winter quarter (YOUNG) MTWThF 8
winter, 30

174. Physical-Chemistry Measurements.—Exercises in the practice of physical-chemical laboratory methods. Open to students who have completed or are taking courses 171, 173, and who have completed courses 112, 122, and 123. In special cases and by special arrangement this course will be open to students who have completed courses 112, 122, and 123, but have omitted courses 171, 173.
5 units, autumn, *winter, and *spring quarters (YOUNG, PARKS) 5 afternoons
autumn, 9; winter, 5; spring, 5

181. Electro-Chemistry.—Discussion of the general theories and applications of electro-chemistry. Open to seniors in Chemistry, and to others who have completed courses 171, 173, or their equivalent.
3 units, spring quarter (PARKS) MWF 8
spring, 22

201. Seminary in Chemistry.—Discussion of assigned topics in theoretical and general chemistry. Open to graduate students, and to advanced undergraduates in Chemistry, with the approval of the Faculty in Chemistry.
1 unit, every quarter (FRANKLIN, SWAIN) W 4

203. Colloid Chemistry.—A discussion of the more important properties and applications of matter in the colloidal state.
1 unit, winter quarter (FINDLAY) W 10
winter, 45

205. Thermodynamics and Chemistry.—A problem and reading course. The original researches on which are based the laws of physical chemistry will be studied. The practical application of the laws will be demonstrated by problems. Prerequisites: Chemistry 171, 173, and a knowledge of calculus.
3 units, winter quarter (PARKS) To be arranged
winter, 12

207. Phase Rule and Its Applications.—A short discussion of the conditions of equilibrium in heterogeneous systems.
1 unit, summer quarter (FINDLAY) W 10
summer, 23

210. Advanced and Special Courses.—Advanced and Special Courses in laboratory work and research work are open to students who have completed the necessary prerequisites, by arrangement with professors

of the department, and with reference to the particular aims and ambitions of the students.

autumn, 27 (8 groups); winter, 36 (12 groups); spring, 35 (8 groups); summer, 22 (10 groups)

Candidates for the degree of Bachelor of Arts in Chemistry must offer the equivalent of two years of college work in German, or two years of French and one year of German. The election of German in the Lower Division is advised for those who have not had the equivalent of two years of college work in the subject. A good reading knowledge of German is required for all advanced degrees.

Major students should complete the courses in one of the following curricula (A, B, C, or D) in meeting the requirements for the degree of Bachelor of Arts in Chemistry.

Qualified students may also pursue investigations of problems in inorganic, organic, physical, analytical, or physiological chemistry under the direction of any professor with whom arrangement is made. For all such advanced, special, or research work, students will register and enroll under 210, giving the name of the professor under whom the work is to be carried on, and for such number of units of credit as may be agreed upon.

Students intending to major in the Department of Chemistry are advised to offer entrance credit in chemistry, physics, mathematics (including solid geometry and trigonometry for the chemical engineering course), and German (2 units). Entrance credit in biological science will also be advantageous. Students without these entrance credits may experience some difficulty, especially in the chemical engineering course, in conforming to the departmental requirements for graduation. Consult also the *Registration Manual for the Lower Division.*

A. General Chemistry

[Recommended for all who are studying the science of chemistry particularly as a basis for teaching or scientific research.]

First and Second Years.—Lower Division requirements, including Chemistry 1, 2, 3, 4, or 4, 7, 9, and 20; Physics 1, 2, 3, 20; Mathematics 20, or its equivalent; and German.

Third and Fourth Years.—Chemistry 101, 111, 112, 121, 122, 123, 171, 173, and 174 or 124, or 210.

B. Analytical Chemistry

[Particularly adapted to meet the needs of students who are looking forward to the career of analytical chemist.]

First and Second Years.—Lower Division requirements, including Chemistry 1, 2, 3, 4, or 4, 7, 9, and 20; Physics 1, 2, 3, 20; Mathematics 20 or its equivalent; and German.

Third and Fourth Years.—Chemistry 101, 111, 112, 114, 118, 121, 122, 123, 171, 173, and 174 or 124, or 210; Mineralogy 122.

C. Biological Chemistry

[Particularly adapted to students who are looking forward to work along medical or biochemical lines.]

First and Second Years.—Lower Division requirements, including Chemistry 1, 2, 3, 4, or 4, 7, 9, and 20; Physics 1, 2, 3, 20; Mathematics 20 or its equivalent; and German.

Third and Fourth Years.—Chemistry 101, 111, 112, 121, 122, 123, 141, 142, and 174 or 124 or 146 or 210; Physiology 101 or 102; Bacteriology 1 or 201.

D. Chemical Engineering

[Intended especially for students who are working toward the degree of Engineer in Chemical Engineering, and who desire to fit themselves for positions of responsibility in connection with the administration of industries involving chemical knowledge and skill.]

This curriculum comprises four years of the necessary six years' work leading to the advanced degree of Engineer in Chemical Engineering. Candidates in this course receive the degree of A.B. in Chemistry, upon completion of the following requirements:

First and Second Years.—Lower Division requirements, including Chemistry 1, 2, 3, 4, or 4, 7, 9, and 20; Physics 11; Applied Mathematics 1*a*, 1*b*, 2*a*, 2*b*, 3*a*; Engineering 1, 2; and German.

Third and Fourth Years.—Chemistry 101, 111, 112, 114, 121, 122, 123, 171, 173; Applied Mathematics 3*b*; Physics 12, 13, 14; Engineering 3, 106, 110; Mechanical Engineering 12.

Advanced Degrees

After October 1, 1926, the degree of Engineer in Chemical Engineering will be conferred only on those candidates who have completed two years of graduate work in addition to the above requirements for the A.B. degree as given under Curriculum D. This work will include a thesis based on laboratory work and the following courses: Chemistry 125, 151, 174, 181, 205; Mechanical Engineering 121, 124, 132, 133, 236; Electrical Engineering 102, 103, 122, 123. A reading knowledge of both German and French will also be required.

Prior to October 1, 1926, this degree will be awarded upon the completion, in addition to the requirements for the A.B. degree in Chemical Engineering, of three quarters of graduate work as outlined in the *Announcement of Courses* for 1920–21. These shall include the following courses: Chemistry 174, Mechanical Engineering 121, 124, 236 and a thesis based on laboratory work.

Applicants for the degree of Master of Arts in Chemistry will be expected to complete, in addition to the requirements for the Bachelor's degree, the equivalent of forty-five units of work in the University—of which approximately two-thirds must be in the department. This work will include a thesis based on laboratory work and courses 171, 173, and 174, if these were not included in the undergraduate work.

Candidates for the degree of Doctor of Philosophy in Chemistry, after the completion of the equivalent of the requirements for the degree of Master of Arts or Engineer, will follow such courses as are approved by the Department Faculty, subject to general University regulations.

The Teacher's Recommendation.—The minimum requirements for the high school teacher's recommendation in Chemistry are as follows:

(*a*) To teach chemistry as a minor high school subject: Courses 1, 2, 3, 4, or 4, 7, 9 (General Inorganic lectures and laboratory); 20 (Qualitative Analysis); 101 (Principles of Chemistry); and either 121 and 123 or 127 and 128 (Organic Chemistry). Total, 26 to 33 units.

(*b*) To teach chemistry as a major high school subject: Courses 1, 2, 3, 4, or 4, 7, 9 (General Inorganic lectures and laboratory); 20 (Qualitative Analysis); 111, 112 (Quantitative Analysis); 101 (Principles of Chemistry); 121, 123 (Organic Chemistry). Total, 34 to 39 units.

Laboratory Fees.—A charge of $25 per quarter ($10 of which is returnable less bills for breakage and loss of apparatus) is made to students in courses 2 and 4; for three units' credit in Chemistry, the fee is $20 per quarter (with $10 returnable less breakage); for all other courses of not more than six units' credit each, the fee is $30 per quarter (of which $15 is returnable less bill for breakage and loss of apparatus).

CITIZENSHIP

Edgar Eugene Robinson (History), Director.

Harold Chapman Brown (Philosophy), Walter Greenwood Beach (Social Science), Edwin Angell Cottrell (Political Science), Marion Rice Kirkwood (Law), Victor J. West (Political Science), Albert Conser Whitaker (Economics), Advisory Committee.

Carl Lucas Alsberg (Food Research), Walter Greenwood Beach Social Science), Eliot Blackwelder (Geology), Harold Chapman Brown (Philosophy), Arthur Martin Cathcart (Law), Edwin Angell Cottrell (Political Science), Marion Rice Kirkwood (Law), Guido Hugo Marx (Mechanical Engineering), Edgar Eugene Robinson (History), Graham Henry Stuart (Political Science), Albert Conser Whitaker (Economics), Lecturers.

Henry Stow Anderson, W. Henry Cooke, Luther H. Evans, Flora May Fearing, Roland McLeod Miller, Oswald H. Wedel, Instructors.

1-3. Problems of Citizenship.—A general introductory course required of all students in their first year. Designed to present the salient features in the bases and background of present-day society, to consider the place of education in modern life and the political equipment of the citizen, and to examine in detail the fundamental political, social, and economic problems of the American people.

Attention will be given the following: (1) Bases of Civilization, including such subdivisions as Physical Environment of Modern Man, Man's Conquest of Nature, Science and the Scientific Method, Fundamental Social Institutions, Races of Mankind; (2) Historical Development of American Society, including such subdivisions as European Expansion, and Exploration of the Americas, Migrations of Peoples,

Beginnings and Development of an American People, National States of the Modern Period; (3) Political Equipment of the Citizen, including such subdivisions as Place of Education in Modern Life, Individual and Political Liberty, Origin and Development of Democracy, Public Opinion, Popular Control in Government; (4) Political Institutions and Problems, including such subdivisions as the Nature of State and Government, Political Parties, Colonialism, Local Government, Problems of Popular Control and Efficiency; (5) Economic and Social Institutions and Problems, including such subdivisions as Industrial Combinations, Regulation of Public Utilities, Foreign Trade, Conservation, Immigration; (6) Education for Citizenship, including such subdivisions as Agencies for Publicity, the Development of Community Life, Opportunities of an Individual in a Democracy.

Lectures by various members of the faculty and sections in charge of instructors in Citizenship.

4 units, autumn, winter, and spring quarters

ThF 10 (and two hours by arrangement)

autumn, 692; winter, 679; spring, 614

CLASSICAL LITERATURE

Henry Rushton Fairclough, Augustus Taber Murray, Professors.
Jefferson Elmore, Benjamin Oliver Foster, Ernest Whitney Martin, Associate Professors.
Mildred Estus, Assistant in Instruction.

The Department of Classical Literature, into which the separate departments of Greek and Latin have been merged, has for its aim the interpretation in the broadest sense of the civilizations of Greece and Rome. It accepts as major students those who desire training in Greek and Latin as a preparation for graduate work either in this University or elsewhere, or who wish to secure teachers' certificates in the classical languages, and also those who, without intending to specialize in Greek or in Latin, wish to make their work in the University conform to the traditional arts course. The student is free to make his major work Greek or Latin at will.

Students who have had no Greek before entering the University may begin their study of the language in any quarter in introductory courses which are open to students in all departments of the University. Students who offer Greek on entrance will be registered in classes adapted to their needs.

In addition to the courses in the Greek and Latin languages, the department offers courses in Classical Literature, History, Archæology, Art, and allied subjects, which, as indicated below, may be taken by major students as a part of their required work, but presuppose no knowledge of the Greek or Latin language, and are open, unless otherwise stated, to students in all departments of the University.

The department offers three majors with a normal requirement of forty-five credit units, as follows (1) Classical Literature, Greek; (2) Classical Literature, Latin; and (3) Classical Literature. For the first of these the student must have completed thirty units in courses in the

Greek language plus fifteen units in the general courses offered by the department; for the second, thirty units in courses in the Latin language (beyond course B3) plus fifteen units from the general courses; and for the third, either thirty units in courses in the Greek language plus fifteen units in Latin, or thirty units in Latin plus fifteen units in Greek.

The completion of the major requirements for graduation carries with it the department recommendation for the teacher's certificate, provided that the Teachers' Course in the language chosen has been included in the work offered. Students in other departments who wish to secure a teaching major or minor in Latin or Greek should consult some member of the department.

A. Greek Courses

A1b. Elementary Greek.—Introduction to Greek through Attic prose. Essential forms; elements of Greek syntax; word-lists from Xenophon; writing of simple sentences; dictation; reading of easy Greek prose.

5 units, autumn, winter, spring, and summer quarters (Martin, Estus)
autumn, 5; winter, 14; spring, 10; summer, 3 MTWThF 8

A1c. Elementary Greek.—Introduction to Greek through New Testament Greek. Word-lists; writing of simple sentences; reading of the Gospel of John.

5 units, autumn quarter (Murray) MTWThF 11
autumn, 5

A2a. Homer.—Review of Homeric forms and grammar; reading of selections from the Iliad. Open to those who have had A1*a*.

3 units, winter quarter (Murray) [Not given in 1924–25]

A2b. Xenophon.—Review of Greek Grammar; reading of selections from the Anabasis. Open to those who have had A1*b*, A1*c*, or equivalent.

3 units, winter and spring quarters (Martin) By arrangement
winter; 5 (2 sections); spring, 10 (2 sections)

A2c. New Testament.—Review of Greek Grammar; reading of the Gospel of Mark and the Acts of the Apostles. Open to those who have had A1*b*, A1*c*, or equivalent.

3 units, winter quarter (Murray) [Not given in 1924–25]

A3a. Homer (continued).—Rapid reading of selected books from the Odyssey; informal discussion of Homeric problems, life, and criticism. Open to those who have had A2*a*, 2*b*, 2*c*, or equivalent.

3 units, autumn and spring quarters (Murray) MWF 9
autumn, 1; spring, 4

A3b. Plato.—Systematic review of Greek syntax; practical exercises written and oral; reading of Cebes' *Tablet*, Plato's *Apology* and *Crito*. Open to those who have had A2*a*, 2*b*, 2*c* or equivalent.

3 units, autumn and spring quarters (Martin) MTWThF 1:05
autumn, 4; spring, 4

A13. Individual Work.—Students and instructors meet each week for free reading in Greek suited to the needs of the individual.

1 to 3 units, each quarter (Fairclough, Murray, Martin) By arrangement
autumn, 14 (3 groups); winter, 14 (4 groups); spring, 18 (6 groups); summer, 12 (3 groups)

A14. Prose Composition.—Exercises adapted to the particular needs of the individual student. Open to those who have had one year of high school Greek, or have taken courses A1*a*-A1*c* or the equivalent.

2 units, each quarter (Murray, Martin) By arrangement
autumn, 3; winter, 3; spring, 11 (2 sections)

[NOTE.—Three courses (9 or 15 units) chosen from the above with reference to the student's taste and preparation constitute the first year's work in Greek for those who have had no Greek before entering college, and may be counted toward the fulfillment of the foreign language requirement of the Lower Division. Where possible it is strongly urged that this work be accomplished during the first two years of residence, especially by those who plan to become Greek majors in Classical Literature.]

A50. Greek Historians.—Selections from Herodotus; Thucydides, Book VI; Xenophon, Hellenica; Study of the Greek Historians. Open to those who have had A3*a*, 3*b*, or equivalent.
3 units, autumn quarter (MARTIN) [Not given in 1924–25]

A51. Rapid Reading.—Lucian's *Vera Historia* and selected orations of Lysias. Open to those who have had A3*a*, 3*b*, or equivalent.
2 units, spring quarter (MARTIN) By arrangement
spring, 4

A52. Introduction to Greek Poetry.—Selections from the Greek Lyric Poets. Open to those who have had A50, 51, or equivalent.
3 units, winter quarter (FAIRCLOUGH) [Not given in 1924–25]

A53. Rapid Reading.—Selections from the Greek Anthology and Bacchylides. Open to those who have had A50, 51, or equivalent.
2 units, winter quarter (MARTIN) By arrangement

A54. Introduction to Greek Tragedy.—Euripides' Alcestis and Sophocles' *Antigone.* Open to those who have had A52, 53, or equivalent.
3 units, winter quarter (MARTIN) MWF 8
winter, 3

A55. Rapid Reading.—Greek comedy. Selections from Aristophanes and Menander. Open to those who have had A52, 53, or equivalent.
2 units, spring quarter (MARTIN) By arrangement

[NOTE.—Courses A 50–55 (9 or 15 units) constitute the second year's work in Greek for those who begin their Greek in the University.]

A101. Æschylus.—Reading of *Prometheus Bound* and *Agamemnon;* lectures.
3 units, autumn quarter (MURRAY) By arrangement

A102. Plato.—Reading of the Republic, Books I and II; lectures.
3 units, winter quarter (MURRAY) By arrangement

A103. Demosthenes.—Reading of the *De Corona;* sight translation of *Æschines Against Ctesiphon.*
3 units, spring quarter (MURRAY) By arrangement

A110. Theocritus.—Reading of the idylls in Greek and a survey of pastoral poetry in ancient and modern literature.
2 units, autumn quarter (FAIRCLOUGH) TTh 10

A111. Pausanias.—Reading of Book I and selections from other Books. Study of the Topography and Monuments of Athens, Delphi, Corinth, and Olympia.
2 units, autumn quarter (MARTIN) By arrangement

A112. Later Greek Epic.—Rapid reading in the *Argonautica* of Apollonius Rhodius, and the *Posthomerica* of Quintus Smyrnæus.
2 units, summer quarter (MARTIN) [Not given in 1924–25]

A200. Teachers' Course.—Lectures on methods, with practical training.
2 units, spring quarter (MARTIN) S 9 or by arrangement

A220. Modern Greek.—Grammar (Rangabe); reading of easy texts.
2 units, winter and spring quarters (FAIRCLOUGH, MARTIN)

A250 (B250). Journal Club.—Instructors and advanced major students meet each week for the discussion of journals and new books of interest to classical students.
1 unit, autumn and winter quarters (FAIRCLOUGH) By arrangement
autumn, 4; winter, 2

A280. Greek Seminary.—Reading of the Homeric Poems and the discussion of papers and reports presented by the members.
1 to 4 units, autumn, winter, and spring quarters (MURRAY) By arrangement

B. LATIN COURSES

B1. Introduction to Latin.—Grammar and exercises. For students who have had no Latin. May be taken (with B2–B6) in fulfillment of the foreign language requirement of the Lower Division.
5 units, autumn quarter (————) MTWThF 1
autumn, 4

B2. Introduction to Latin (continued).—Reading of easy prose, exercises in composition, Cæsar begun.
5 units, winter quarter (FOX) MTWThF 1
winter, 5

B3. Introduction to Latin (concluded).—Cæsar's Gallic War, Books I–IV, or selections from the Gallic and Civil wars; exercises in composition.
5 units, spring quarter (FOX) MTWThF 1
spring, 6

B4. Cicero.—Selected orations. Open to students who have had two years of high-school Latin. May be taken (with B5 and B6) in fulfillment of the foreign language requirement of the Lower Division.
3 units, autumn quarter (ELMORE) MWF 11
autumn, 13

B5. Virgil.—Selected books of the Æneid. Open to students who have had two years of high-school Latin.
3 units, winter and *summer quarters (FOSTER, ESTUS) MWF 9
winter, 9

B6. Virgil.—A continuation of B5, but may be taken by any student who has had two years of high-school Latin.
3 units, spring quarter (FOSTER) MWF 9
spring, 7

B13. Individual Work.—Reading in Latin suited to the needs of the individual.
2 to 3 units, autumn, winter, and summer quarters (FAIRCLOUGH, FOSTER, ELMORE) By arrangement
autumn, 3; winter, 6 (2 groups); summer, 13 (2 groups)

B14. Terence and Cicero.—The *Andria* of Terence and the *De Senectute* of Cicero. Open to those who have had three years of high-school Latin or have taken B4–6.
4 units, autumn quarter (FOSTER) MTWF 9
autumn, 8

B15. Catullus and Horace.—Selections from Catullus and from the Odes and Epodes of Horace. Open to those who have had three years of high-school Latin or have taken B4–6.
3 units, winter and *summer quarters (ELMORE, FAIRCLOUGH) MWF 9
winter, 6

B16. Livy.—Books XXI and XXII. The war with Hannibal to the battle of Cannæ. Open to those who have had three years of high-school Latin or have taken B4–6.
3 units, spring quarter (FOSTER) MWF 9
spring, 7

B17. Suetonius.—Selections from the biographies with special attention to The Life of Augustus.
3 units, summer quarter (ELMORE) (3d hour by arrangement) TTh 8
summer, 6

B29. Prose Composition.—The exercises are not based on a Latin text, but are drawn from present-day affairs and events, with the aim of imparting some facility in original composition. Open to those who have had three years of high-school Latin, or have taken courses B4–6.
2 units, autumn and winter quarters (ELMORE) TTh 9
autumn, 3; winter, 4

B40. Horace.—Satires and Epistles. Attention is directed especially to the style and subject-matter, to Horace's influence on Latin literature, and to the salient features of the Augustan Age. Open to those who have had B14–16 or an equivalent.
3 units, autumn quarter (FAIRCLOUGH) MWF 8
autumn, 3

B41. Tacitus.—Annals XIII–XVI. The life and times of the Emperor Nero. Open to those who have had B14–16 or an equivalent.
3 units, winter quarter (FOSTER) MWF 8
winter, 5

B103. Cicero.—Selections from the correspondence of Cicero, illustrative of the man and his age. Open to those who have had two years of college Latin.
4 units, autumn quarter (FOSTER) MTWF 8

B116. Lucretius.—Selections from the de Rerum Natura, with informal discussions of the Epicurean philosophy and the art of Lucretius.
4 units, autumn quarter (FOSTER) [Not given in 1924–25]

B118. Seneca and Pliny.—Selections from the essays of Seneca and the letters of the younger Pliny.
3 units, spring quarter (FOSTER) [Not given in 1924–25]

B124. Juvenal and Martial.—The first, third, and tenth satires of Juvenal, and selected epigrams of Martial. Open to those who have had two years of college Latin.
3 units, winter quarter (FOSTER) MWF 8

B136. Roman Comedy.—The *Captivi* and *Rudens* of Plautus, and either the *Trinummus* of Plautus or the *Phormio* of Terence. Open to those who have had two years of college Latin.
4 units, spring quarter (FOSTER) MWF 8
spring, 9

B138. Petronius and Apuleius.—The Cena Trimalchionis and selections from the Metamorphoses.
3 units, winter quarter (FOSTER) [Not given in 1924–25]

B145. Medieval Latin.—Reading of representative texts with informal discussions. Intended for Latin students interested in the later development of the language and for students of English and history working in the medieval field.
3 units, spring quarter (ELMORE) MWF 11
spring, 7

B200. Teachers' Course.—Lectures and conferences on methods of teaching Latin. Open only to advanced students.
2 units, spring quarter (ELMORE) TTh 11
spring, 4

B225. Latin Epigraphy.—Lectures, with practice in the reading of inscriptions and in the use of the Corpus. Primarily for graduate students.
2 units, winter and summer quarter (MARTIN) By arrangement
winter, 3; summer, 4

B230. Latin Palæography.—The ancient and the medieval book, with practical exercises in the reading of facsimiles.
2 units, autumn quarter (FOSTER) TTh 3
autumn, 5

B250 (A250). Journal Club.
(FAIRCLOUGH) By arrangement

B278. Latin Seminary.—The first decade of Livy. An introduction to the study of Livy's style, with some practice in text-criticism and interpretation.
4 units, spring quarter (FOSTER) TTh 2–4
spring, 3

B281. Latin Seminary.—Satire and Lyric. The works of Horace were the basis of study. Students should provide themselves in advance with the Oxford text of Horace.
4 units, summer quarter (FAIRCLOUGH) TTh 1–3
summer, 10

B282. Latin Seminary.—The elegiac poets. Lectures on the development of elegiac poetry among the Greeks and Romans; reading and interpretation of the elegiac poems of Catullus, Tibullus, and Propertius.
4 units, spring quarter (FOSTER) [Not given in 1924–25]

B283. Latin Seminary.—The Æneid of Virgil is studied in its entirety as a work of art, with interpretation of selected passages, and some attention to the poet's influence on medieval and modern literature. Open to qualified graduates.
4 units, autumn and winter quarters (FAIRCLOUGH)
autumn, 8; winter, 7

B284. Latin Seminary.—Study of Roman municipal institutions. Based on the extant fragments of municipal charters, the Municipal Law of Julius Cæsar and other inscriptions, and the literary sources. Intended for students of Latin and others interested in the history of institutions.
3 units, summer quarter (ELMORE) [Not given in 1924–25]

C. General Courses

C1. History of Greece.—Outline course, from the earliest period to 30 B. C. Preliminary survey of the Mediterranean background. Open to all students.
3 units, autumn and *summer quarters (ELMORE) MWF 8
autumn, 105; summer, 22

C2. Greek History A.—From the earliest times to the end of the Persian wars. Lectures, with a study of Herodotus in English translation.
3 units, autumn quarter (MARTIN) [Not given in 1924–25]
winter, 62

C3. Greek History B.—The Fifth Century. From the end of the Persian wars to the fall of the Athenian empire. Lectures, with a study of Plutarch and Thucydides in English translations.
3 units, winter quarter (MARTIN) [Not given in 1924–25]

C4. Greek History C.—The Fourth Century. From the fall of Athens to the death of Alexander. Lectures, with a study of Xenophon, Plutarch, Demosthenes, and Arrian in English translations.
3 units, spring quarter (MARTIN) [Not given in 1924–25]

C5. History of Rome.—From the earliest times to the fall of the Western empire. Development of Roman imperialism and the relation of the empire to medieval and modern history. Open to all students.
3 units, spring quarter (ELMORE) MWF 8
spring, 71

C6. History of Roman Civilization.—Study of the conditions of Roman life and comparisons with those of our own. Features of Roman civilization that have survived and influenced the present. Open to all students.
3 units, winter and *summer quarters (ELMORE) MWF 8, 11
summer, 50

C7. Roman Law.—This course is based upon the Institutes of Gaius and Justinian. It is particularly useful to students of law and social institutions. It is conducted in English, but it is advantageous for the students to have some knowledge of Latin.
2 units, winter quarter (FAIRCLOUGH) TTh 11

C8. Roman Political and Municipal Institutions.—Brief survey of the government of Rome. Development of municipalities in the Roman Empire.
2 units, winter quarter (ELMORE) TTh 10
winter, 29

C9. Greek Civilization.—A rapid survey of various phases of Greek Civilization with some reference to the survivals of Greek culture in our own life and thought.
3 units, summer quarter (MARTIN) [Not given in 1924–25]

C10. Lyric Poetry, Greek and Roman.—Lectures with reading (in translation).
2 units, summer quarter (FAIRCLOUGH) TTh 8
summer, 9

C20. Greek Literature, Poets.—Lectures; reading in translations of selections from the greater Greek poets with some reference to their influence on later literature. Open to all students.
3 units, autumn quarter (MARTIN) MWF 11
autumn, 84

C21. Greek Literature, Poets.—Continued.
3 units, winter quarter (MARTIN) MWF 11
winter, 40

C22. Greek Literature, Prose Writers.—Lectures; reading in translations of selections from Herodotus, Thucydides, Xenophon, Plato, Demosthenes, Plutarch, and Lucian. Open to all students.
3 units, spring quarter (MARTIN) MWF 11
[Not given in 1924–25]

C24. The Greek Epic.—Lectures on the poetry of Homer, with reading of both Iliad and Odyssey in English. Open to all students.
3 units, autumn quarter (MURRAY) MWF 8
autumn, 56

C25. Greek Tragedy.—Lectures on the art of tragedy among the Greeks, with the study of selected plays in translation. Open to all students.
3 units, winter quarter (MURRAY) MWF 8
winter, 98

C26. Plutarch, the Greek Lives.—In English.
2 units, winter quarter (MARTIN) TTh 11
[Not given in 1924–25]

C27. Plutarch, the Roman Lives.—In English.
2 units, spring quarter (MARTIN) TTh 11
[Not given in 1924–25]

C28. Pausanias.—In English.
2 units, autumn quarter (MARTIN) TTh 11
autumn, 29

C36. New Testament Literature.—Lectures on the origin, authorship, and characteristics of the books of the New Testament. Open to all students.
3 units, winter quarter (MURRAY) MWF 10
spring, 54

C37. Roman Literature of the Republic.—The chief poets and prose writers of republican Rome. Lectures and assigned readings in English translations. Open to all students.
2 units, winter quarter (FOSTER) TTh 8
winter, 24

C38. Roman Literature of the Empire.—Certain of the more important writers of the Augustan and post-Augustan periods. Lectures and assigned readings in English translations. Open to all students.
2 units, spring quarter (FOSTER) TTh 8
spring, 40

C41. Greek and Roman Lyric Poetry.—Lectures with assigned reading. Open to students above the first year.
2 units, summer quarter (FAIRCLOUGH) MW 9

C44. Greek Myths.—The more important myths and legendary characters of early Greece are traced through Greek literature with some reference to their treatment in later literature. Lectures with assigned reading. Open to all students.
2 units, winter and spring quarters (MARTIN) TTh 11
winter, 105; spring, 56

C48. Greek and Roman Æsthetics.—Based chiefly on the *Phaedrus* of Plato, Aristotle's *Poetica*, Longinus, and the *Ars Poetica* of Horace. An attempt to show what Greek and Roman writers contributed to aesthetic theory and to illustrate some of their principles of literary criticism. Open to upperclassmen and to others on permission of the instructor.
2 units, spring quarter (ELMORE) TTh 2:05–3:05
spring, 5

C50. Classical Art and Archæology.—Lectures, illustrated with photographs and lantern slides. Open to all students.

a. Greek.
2 units, autumn and summer quarters (FAIRCLOUGH) TTh 11
autumn, 39; winter, 1; summer, 48

b. Roman.
2 units, spring quarter (FAIRCLOUGH) TTh 11
autumn, 2; winter, 26

C51. Plato.—In English.
2 units, autumn quarter (MURRAY) By arrangement
autumn, 27

ECONOMICS

Murray Shipley Wildman, Walter Greenwood Beach, Eliot Jones†, Harley Leist Lutz, Albert Conser Whitaker, Professors.
Joseph Stancliffe Davis, Alonzo Englebert Taylor, Directors of the Food Research Institute.
Mabel Newcomer, Acting Associate Professor (summer).
John Bennet Canning, Assistant Professor.
Harold W. Guest, Archibald Forster McGoun, Acting Assistant Professors.
Connell Clifford, Margaret Mulford Lothrop, Nathaniel Sanders, Bernard F. Haley, Emmett Reid Sanford, Instructors.
Philip Meader Brown, George William Lysaght, Carl Burton Robbins, Howard E. Wittenberg, Assistants.
Eliot Grinnell Mears, Lecturer.

Nature and Purpose.—The courses offered in this department are not confined to the subject of Economics as properly defined, but include a number of topics often given in departments of sociology and schools of commerce. In the conduct of all the courses, however, the economic factors are emphasized and their importance to our social institutions is developed. The primary purpose of the instruction is to discover the elements of sound public policy rather than to train for a vocation.

Graduation.—To arrange a program of study leading to the degree of Bachelor of Arts in Economics a student should consult with his departmental adviser in order that his program of work may be adapted to his special needs or interests. In making such a program at least a fourth of the required 180 units must be selected from courses offered in this department.

In addition to courses given in this department, certain others offered in Political Science, History, Law, and Philosophy will be found helpful and should be included in the student's program.

Course 1 (Economic Problems) and course 100 (Principles of Economics) are required of all candidates for graduation in Economics.

Teacher's Certificate.—To obtain a teacher's certificate with the major subject in this department, a student will be required to secure credit for 45 units of work in Economics. For a certificate with a minor in this department, credit for 25 units is required.

Journalism.—Students, majors in this department, who desire to prepare for journalism are referred to the announcement on page 219.

Secretarial Training.—See courses at end of this list (p. 173).

Medical Social Work.—Opportunity for full time training in Medical Social Work is available at the Stanford University Clinics in San Francisco under the direction of Miss Florence Cummings, director of Social Service. Opportunity will be given for experience in connection with the Children's Clinic, Women's Clinic, and the General Medical Clinics, as well as with the hospital.

†Absent on leave, 1924–25.

Courses Primarily for Lower Division Students

1. Economic Problems.—This is an elementary study of problems involving the production, exchange, and use of wealth. An attempt will be made to give the student an approach to the economic issues of the day with an intelligent appreciation of the factors which make for sound public policy.

4 units, autumn, *spring, and *summer quarters (Wildman, McGoun, Brown)
autumn, 73 (2 sections); winter, 33; spring, 38; summer, 24

2ab. Sociology and Social Problems.—This course is an elementary study of social principles and problems which are found in human relations as expressed in social organization and institutions. Not open to first-year students.

3 units, autumn and winter quarters (Beach)
autumn, 75; winter, 33

3. Elementary Accounting.—Development of accounting; theory of debit and credit; bookkeeping forms and practice; preparation of balance sheets and their interpretation; application of theory and principle to simple system of accounts; practical accounting problems. No prerequisites. This course should be taken by students expecting to enter courses 29 and 120. Selections limited to 40 students.

4 units, autumn, *winter, *spring, and *summer quarters (assistants)
autumn, 76 (3 sections); winter, 94 (3 sections); spring, 105 (3 sections); summer, 20

5. Railway Transportation.—Historical account of railroad transportation; rates and rate making; development of railroad systems; state and federal legislation; decisions of the commissions and of the courts; government ownership and operation. Not open to first-year students.

4 units, autumn quarter (Guest)
autumn, 125; winter, 55

6. Introduction to Statistical Methods.—A study of elementary statistical methods appropriate for dealing with problems in the social sciences and business. Emphasis will be given to the critical examination of data, to the defining of statistical units, to the theory of classification, to the properties and appropriate uses of the commoner averages, and to the determination and interpretation of index numbers.

4 units, spring quarter (Canning)
spring, 21

14. Economic Geography.—A descriptive and interpretive study of the economic resources of the world, with especial emphasis upon production of foodstuffs and raw materials, power resources, distribution of manufactures, and commercial routes, national and international.

4 units, spring quarter (Guest)
spring, 217

21. Public Finance.—A general course dealing with the history and theory of public expenditures, national, state, and local budgets, methods of securing efficiency in the disbursements of public moneys, public debts, and war finance.

4 units, winter quarter (Lutz)
winter, 39; summer, 47

22. Labor Problems.—A general course. The topics considered include the following: the rise of the wage-earning class, the industrial revolu-

tion, unemployment, woman and child labor, wages, collective bargaining, labor motives, and cultural aspects of labor life.
4 units, winter quarter (LUTZ)
winter, 50

26. Money and Credit.—The elements of monetary theory; the laws of coinage, legal tender, and credit; the standard of value, price movements, and their relation to prosperity.
3 units, autumn and *summer quarters (WILDMAN)
autumn, 141

27. Insurance.—The social and individual problems of economic insecurity; the development of forms of insurance to deal with them; outlines of the principles of the major commercial branches of insurance; problems of state control and participation.
4 units, spring quarter (CANNING)
spring, 60

29. Intermediate Accounting.—The accounts peculiar to the modern business corporation; and the procedure necessary to report the performance (1) of administrative officers to boards of directors, and (2) of boards of directors to the body of stockholders. Prerequisite: course 3 or its equivalent. Limited to 40 students.
4 units, autumn and *spring quarters (CLIFFORD, LYSAGHT)
autumn, 31; spring, 77; summer, 9

46. Economic History of the United States.—A general historical survey of the economic development of the United States from the colonial period to the present. The subject matter of the course includes the tariff, commerce and manufactures, currency and banking, the South and slavery, the financial management of the government, the labor movement and immigration, and the conservation of national resources.
4 units, spring quarter (LUTZ)
spring, 89

47. Taxation.—A general treatment of the principles and practice of taxation, with special reference to American methods and conditions.
4 units, spring quarter (LUTZ)
winter, 1; spring, 44

48. Federal Tax Procedure.—A critical examination of the concepts of income and expense expressed and implied in the Revenue Act of 1921. Illustrative problems in the application of these notions in tax reports will constitute a major portion of the course. Prerequisite: course 3 or its equivalent.
3 units, spring quarter (ROBBINS)
spring, 36

[**Business Law.**—See courses 100 and 101 in the Law School.]

COURSES PRIMARILY FOR UPPER DIVISION UNDERGRADUATES

100. Principles of Economics.—A review of the principles of economics. Required of economics majors and open only to them and to graduate students of other departments.
4 units, autumn and *spring quarters (MCGOUN, GUEST)
autumn, 59; winter, 77; spring, 44; summer, 29

101. Railway Problems.—A study, from the viewpoint of public policy, of the problems that arise in connection with government regulation and government ownership. Prerequisite: Course 5.
2 units, summer quarter (MCGOUN)
summer, 4

102. Banking.—The organization of American credit institutions under the Federal Reserve Act, and a comparison between American and European practice.

3 units, spring and summer quarters (WILDMAN, GUEST)
spring, 99; summer, 1

103. Care of Dependents.—A study of the problems of the care of dependents and defectives in institutions and in their homes, with special reference to conditions in California. Three trips of inspection will be required.

4 units, spring quarter (LOTHROP)
spring, 19; summer, 6

104. Problems of Poverty.—A study of the factors causing poverty, crime, disease, and mental defectiveness, as evidences of social maladjustment; a survey of the possible means of prevention and of the social agencies attempting such work, with special reference to California. Trips of inspection will be included.

4 units, summer quarter (LOTHROP)
summer, 15

105. Crime as a Social Problem.—A study of the problems of crime: the psychological basis, the historical development and the new scientific approach in the treatment of delinquents in the courts and in institutions, with special reference to conditions in California. Three trips of inspection of institutions will be required.

5 units, winter quarter (LOTHROP)
winter, 26

106. Foreign Exchange.—A study of the system of settling international indebtedness; principles and practice of exchange banking; money markets of the world and their relations. Domestic exchange will also be considered.

4 units, autumn and *winter quarters (WHITAKER)
autumn, 174; winter, 62

107. Railway Administration.—A study, from the viewpoint of the railroad executive, of railway organization, operation, traffic, finance, accounts, rates, and labor relationships. Prerequisite: course 5.

2 units, winter quarter (JONES) [Not given in 1924–25]

108. Investments.—A study of the issues of national, state, and municipal governments, of railway, industrial, and irrigation companies from the investor's point of view, and the organization and methods of bond and brokerage houses.

3 units, summer quarter (WILDMAN)
summer, 51

109. Advanced Accounting.—The valuation of fixed assets of private enterprises, and the distribution among accounting periods of costs and losses incurred in connection with investment in fixed assets. Special emphasis will be given to valuation for purposes of purchase and sale of a business, and purposes of corporate combination or reorganization. Prerequisite: intermediate accounting or its equivalent.

4 units, winter quarter (CANNING)
winter, 24

110. Accounting Reports.—A discussion of the balance sheet, of the loss and gain statement, of the statement of application of funds, and of progress reports, with reference to the interests of the stockholder,

the short-term creditor (chiefly the banker), and the bondholder. Prerequisite: intermediate accounting or the equivalent.

4 units, autumn quarter (CANNING)
autumn, 16

110a. Special Work in Accounting.

spring quarter (CANNING)
spring, 6

112. Introduction to Auditing.—Training for two classes of students is contemplated: (1) those who intend to become professional accountants; and (2) those whose future work as bankers, credit managers, investors, etc., will involve frequent interpretation of the accounts and accounting documents of others. Purposes of audits, kinds of audits, processes of auditing, auditor's reports, and the legal and ethical duties of auditors to clients and to the public will be discussed. Practice work in auditing will be sought. Prerequisites: course 29, and consent of the instructor.

4 units, winter quarter (CANNING)
winter, 24

113. Introduction to Cost Accounting.—The nature and classification of cost, methods of cost measurement and allocation to output; relation of manufacturing cost accounting to scientific management. Prerequisite: intermediate accounting or the equivalent.

4 units, autumn quarter (CANNING)
autumn, 15

114. Introduction to Social Investigation.—A brief survey of the resources of the library and of the methods used in Documentary Research, Case Work, and Social Surveys.

3 units, spring quarter (LOTHROP)
spring, 5

115. Psychological Aspects of Sociology.—This course is a study of the organization of society from the point of view of mental interrelationships of society and the individual. Problems of association, leadership, conflict, coöperation, the formation of public opinion, and social progress will be considered. An elementary knowledge of sociology and psychology is assumed.

4 units, autumn quarter (BEACH) [Not given in 1924–25]

116. Immigration.—A general introduction to the study of immigration, but with special reference to the composition of the American population and to the economic and social problems involved in the mingling of peoples, of economic standards, and of cultures in the United States.

4 units, winter quarter (BEACH)
winter, 32

117. Problems of Child Welfare.—A brief survey of problems of child protection and care outside of the school, with special reference to conditions in California. This course is designed for teachers or for those interested in child welfare who cannot take the full courses. Two trips of inspection will be required.

a. Problems of Health and of Child Labor.—Not open to those taking Economics 104 for the full quarter, but open to those taking Economics 104 for the first half only.

1 unit, summer quarter, first half (LOTHROP)
summer, 17

b. The Care of Dependent, Defective, and Delinquent Children.—Not open to those who have taken Economics 104 and 105.
1 unit, summer quarter, second half (LOTHROP)
summer, 12

118. Seminar in Social Problems.—Opportunity for intensive investigation of some Social Problem.
autumn, winter, and summer quarters (LOTHROP) By arrangement

119. Accountancy of Investment.—Methods of valuing income-bearing properties and securities on the basis of a rate of interest, and of finding the rate of interest yielded on investments. Depreciation and sinking funds. The student's work will consist largely in the solution of assigned problems. Advanced mathematics not required.
4 units, autumn and spring quarters (WHITAKER)
autumn, 38; spring, 149

120. Corporation and Trust Finance.—Elementary survey of corporation law; the organization and management of corporations and combinations; the corporation's securities, stocks and bonds, and their classification; the stock market and stock speculation; capitalization, surplus, reserve, and financial policy; the provision of new capital; promotion, underwriting, receiverships and reorganization.
4 units, winter quarter (WHITAKER)
winter, 216

121. Food Resources of the World.—The factors determining the production and distribution of food products.
2 units, spring quarter (TAYLOR) [Not given in 1924–25]

123ab. Value and Distribution.—A study of the theories of value and distribution of Alfred Marshall, Boehm-Bawerk and J. B. Clark. Prerequisite: course 100 or equivalent.
3 units, autumn and winter quarters (HALEY)
autumn, 10; winter, 8

124. Principles of Economics (continued).—A review of the principles of economics, based on Taussig's Principles, Vol. II. Open only to seniors majoring in economics and to graduate students. Prerequisite: Economics 100.
4 units, winter quarter (LUTZ) [Not given in 1924–25]

125. Social Legislation in California.—A survey of the laws in California affecting social welfare, and the problems underlying these laws: Housing, Child Labor, Workmen's Compensation, Juvenile Court, etc.
2 units, winter quarter (LOTHROP)
winter, 1

126. Population.—A study of the theories of population and problems of quantity, quality, and distribution in modern society.
3 units, autumn quarter (BEACH)
autumn, 64

127. Social Organization and Culture.—A study of the factors and forces involved in the organization and modification of society. The meaning of culture, the nature of social change, the development of public opinion, and the direction of progress are emphasized. An elementary knowledge of sociology and psychology is assumed.
4 units, spring quarter (BEACH)
spring, 14

128. Rural Society.—A general survey of the economic and social conditions of rural life in the United States. Description, analysis of causes, and discussion of movements and proposed remedies.
4 units, spring quarter (BEACH)
spring, 65

129. Theories of Social Reform.—A study of experiments in social reform from the standpoint of actual results achieved by organizations which exclude the freedom of contract. The discussion and criticism of the underlying principles of these movements and the examination of some non-socialistic programs of current interest.
4 units, summer quarter (McGOUN) MTWTh 10
summer, 34

COURSES PRIMARILY FOR GRADUATE STUDENTS

201. History of Economic Thought.—A study of the economic theories of the Mercantilists, Physiocrats, Adam Smith and the economists of the early nineteenth century. Open to graduate students.
3 units, autumn, winter, and spring quarters (HALEY, WILDMAN)
autumn, 13 (2 groups); winter, 16; spring, 8; summer, 4

202. Seminar in Transportation.—This seminar is designed for advanced students.
spring quarter (JONES) [Not given in 1924–25]

203. Seminar in Sociological Theory.—This seminar is designed for advanced students.
spring quarter (BEACH) By arrangement
autumn, 4

204. Seminar in Labor.—(Public Finance and Taxation in alternate years.) Designed for advanced students.
autumn quarter (LUTZ) [Not given in 1924–25]

205. Seminar in Economic Research.—Open to qualified students.
autumn, winter, and spring quarters (DAVIS) By arrangement

206. Seminar in Coöperative Marketing.—Open to advanced students.
autumn quarter (MEARS) By arrangement

207. Seminar in Experimental Distribution Economies.—Open to advanced students.
winter quarter (MEARS) By arrangement
winter, 10

208. Seminar in Social Problems.
winter quarter (LOTHROP) By arrangement
winter, 6; spring, 6

209. Seminar in Immigration.
2 units, winter quarter (BEACH)
winter, 5; spring, 2

211. Seminar in Accountancy.—Special problems in the theory and practice of accounts. Prerequisite: consent of instructor.
autumn and winter quarters (CANNING)
autumn, 6; winter, 9

212. Oriental Land Policy.
autumn quarter (MEARS)
autumn, 9; winter, 9

213. Business Cycles.—An outline of the theories of business cycles of W. C. Mitchell et al., with statistical verifications, to be followed by a

history of commercial crises and depression and synthesis of theories.
4 units, winter quarter (McGoun)
winter, 15

Secretarial Training

AI. Secretarial Training.—This course offers training in stenography and typewriting, supplemented by instruction in the form, arrangement, and the general mechanical make-up of the business letter. Credit for any of the courses in secretarial training is not accepted in fulfillment of the departmental requirements for graduation, but may count as part of the university requirement for the degree. Four hours' instruction a week in stenography and three in typewriting. Open to Lower Division students.
4 units, autumn, *winter, *spring, and *summer quarters (Sanders)
autumn, 61 (2 sections); winter, 36 (2 sections); spring, 42 (2 sections); summer, 29 (2 sections)

AII. Secretarial Training.—Development of speed with accuracy on the typewriter, coupled with ability to take stenographic dictation at the rate of 75 words a minute. Open to those who have completed AI or its equivalent.
4 units, winter, *spring, and *summer quarters (Sanders)
autumn, 12; winter, 43 (2 sections); spring, 26 (2 sections)

AIII. Secretarial Training.—Special emphasis will be laid on further development of typewriter speed. Discussion of such secretarial problems as the writing and filing of business correspondence, business forms and office management, and the writing of business reports. This course does not pre-suppose a knowledge of shorthand. If limitation is necessary, preference will be given to those who have completed AII shorthand or are taking AIII typewriting.
4 units, autumn and *spring quarters (Sanders) By arrangement
autumn, 16; spring, 20 (2 sections)

AIV. Teachers' Course.—Designed for students preparing to teach the commercial subjects. Discussion of the methods of teaching shorthand, typewriting, bookkeeping, and kindred commercial branches. Lectures, discussions, and demonstrations. Credit for this course is not accepted in fulfillment of the departmental requirements for graduation, but may count as part of the 23 prescribed units in education for the teachers' certificate. Prerequisite: Economics AI, AII, AIII, and 3 or their equivalent.
3 units, autumn and *winter quarters (Sanders)
autumn, 6; winter, 5

EDUCATION

SCHOOL OF EDUCATION

The purpose of the School of Education is to enable the University to meet the legitimate demands of the State in the matter of the preparation, training, and certification of teachers and school officers. The faculty of the School is composed of the faculty of the Department of

Education, together with representatives from other departments concerned with the preparation of teachers for the junior high schools and secondary schools; and the faculty of the School has outlined courses for preparation in both majors and minors which will lead to certification as teachers. A special Announcement of the School, giving details as to its organization, requirements, and programs of study, will be mailed on request.

Of this School, the faculty of the Department of Education proper constitutes one division, and the faculty of the Division of Graphic Art another division.

DEPARTMENT OF EDUCATION

ELLWOOD PATTERSON CUBBERLEY, TRUMAN LEE KELLEY, JESSE BRUNDAGE SEARS, Professors.

[LEWIS MADISON TERMAN, Professor of Psychology.]

JOHN CONRAD ALMACK, PERCY ERWIN DAVIDSON, WILLIAM MARTIN PROCTOR, Associate Professors.

HARL R. DOUGLASS (University of Oregon), Acting Associate Professor, Summer Quarter.

HENRY CHARLES JOHNSON, RALPH WALDO SWETMAN, FRANK WATERS THOMAS, J. HAROLD WILLIAMS, Acting Assistant Professors, Summer Quarter.

KARL MONTAGUE COWDERY, CLARENCE ROBERT STONE, Acting Instructors, Summer Quarter.

[MAUD AMANDA MERRILL, CALVIN P. STONE, Assistant Professors of Psychology.]

HOWARD RICE TAYLOR, Teaching Fellow in School Administration, and Assistant in Practice Teaching.

CECIL ROBERT BROLYER, Fellow in the Study of Differentiable Mental Abilities.

VAAL STARK, Assistant in Girl Scout Work.

DOROTHY PUTNAM, Secretary of the Department and of the School of Education.

GWYNETH A. LEWIS, Department Librarian to May 1st, MRS. MARGARET S. WELLS after May 1st.

The Department of Education offers eight main lines of work:

1. Courses of a general nature on the history, function, financing, and administration of public education, open as electives to all properly qualified university students, and intended as information courses without reference to the work of teaching.

2. Courses intended to assist other departments in preparing students for certification to teach in schools in California. Such students should confer with members of the Department of Education as to courses, but in general, courses 132, 133, and 180 are recommended. Courses 155, 160, and 196 are required by the state regulations for the junior high school certificate. Six units of work relating to secondary-school work (courses 195 and 196) are required of all candidates for the high school teacher's recommendation, as are courses 199 and 201, if the candidate has not had previous experience in teaching. Courses 155, 160, 151 or 199, and 201

are required for all forms of California certificates. (For a more detailed statement of requirements and exemptions, see the *Announcement of the School of Education.*)

3. A course of training leading to the elementary certificate in California and the A.B. degree for those university students who desire to prepare for work in the elementary schools. This course builds onto the Lower Division requirements, and students who expect to prepare for such certification should make their major in Education at the beginning of the junior year. For a statement as to this course, see further on.

4. An Upper Division course leading to the A.B. degree in Education. Teachers of experience, and graduates of normal schools, teachers' colleges, and other teacher-training institutions, will be accepted as major students in Education when they have attained to at least junior standing. Others, lacking such experience or training, may be accepted as major students, each case being considered separately.

5. Five major courses, each leading to the high school teacher's certificate and A.M. degree in Education, and offering preparation along the following lines:

(*a*) History and Theory of Education. Intended for those desiring a general acquaintance with educational history and theory.

(*b*) High School Teacher. Intended for those taking an A.M. degree under the faculty of the School of Education who have had no teaching experience.

(*c*) High School Administration. Intended for those preparing for work as a high school principal.

(*d*) Administration of Education. Intended for those preparing for executive work in education as principal or superintendent of schools.

(*e*) Educational Research. Intended for those preparing to become directors of research in public school systems.

Each such major curriculum requires the completion of 45 units of work in the Department of Education; and the completion of some one of the five curricula is expected of those qualifying for the A.M. degree and the high school teacher's recommendation in Education. (For an outline of each curriculum, see the *Announcement of the School of Education.*)

6. Courses primarily for major students, or those making Education a minor for the Ph.D. degree and intended to give special preparation to: (*a*) those who desire to become teachers of Education in normal schools or colleges, (*b*) those who desire to prepare to direct research work in training schools and public school systems, (*c*) those who wish to prepare for supervisory or administrative positions in the public schools, elementary or secondary, and (*d*) those who wish to prepare for special educational work in the elementary or secondary field. (See 4 above.)

7. Courses and research work, given in connection with the Department of Psychology, in the psychology and pedagogy of exceptional children. Two lines of work are offered in this field: (*a*) elementary courses designed to give prospective superintendents and principals a general acquaintance with the problems of special education, and (*b*) research courses for the advanced student who looks forward to work as clinical psychologist in the public schools or institutions for defectives or delinquents. The Dr. C. Annette Buckel Foundation, supplemented by

additional support from the Board of Trustees of the University, has provided for a "research fellowship in the psychology and pedagogy of backward children." A "research fellowship in the study of exceptional children" has also been provided. (See Department of Psychology.)

8. Courses for the preparation of teachers of drawing for the public schools, and for the general training of college students in artistic perception and graphic expression. (See Division of Graphic Art.) Students may enroll as prospective majors in this division, beginning with the freshman year.

Major Requirements

Intelligence Test.—All students majoring in Education, and candidates for an advanced degree, are expected to take the University Intelligence Examination at the beginning of the first quarter after entering for work in the department. The cost for this is provided by the department in the case of students who are candidates for the Ph.D. degree.

Undergraduate Work.—Major students begin their work in Education with the junior year, and will be classified under one or the other of the two following groups:

1. Elementary Certificate (A.B.) Course.—Intended for those who expect to begin teaching in the elementary schools after receiving the A.B. degree.

This course involves the following:

(*a*) Completion of the Lower Division requirements. These call for certain group requirements, parts of which may be satisfied with high school credits, and include: English composition (6 units), a foreign language, literature, biology (9 units), physics or chemistry (9 units), American and general history (9 units each), the university citizenship course (12 units), and six quarters of physical training. A few other subjects may be offered in satisfaction of these requirements.

(*b*) The elementary certificate student must also include some work in Graphic Art, and, unless possessed of good voice control and enunciation, in public speaking also.

(*c*) The course in the Constitution of the United States (History, 175) is required of all candidates for a teacher's certificate, as is a course in General Psychology (Psychology 51).

(*d*) At least fifteen units of university credit must be obtained, in at least three of the following lines of work—English, language, graphic art, history, economics, mathematics, physical sciences, biological sciences, and general science—to meet the state requirements for certification.

(*e*) At least 38 units of work in the Department of Education, distributed approximately as follows:

Junior year.—15 units.

132. Introduction to Education, 5 units, autumn quarter.
133. Theory of Education, winter quarter, 5 units.
150. Elementary Education, spring quarter, 3 units.
151. Technique of Teaching, spring quarter, 2 units.

Senior year.—23 units.

180. History of Education in U. S., autumn quarter, 3 units.
160. Citizenship and Education, winter quarter, 3 units.
168. Growth and Development of Child, winter quarter, 3 units.

155. California School System and Law, spring quarter, 3 units.
153. Elements of Measurement, spring quarter, 5 units.
201. Practice in Teaching, 1st or 2d half-year, 6 units.

2. Regular Education A.B. Course.—Intended for students who expect to graduate in Education, and to proceed to the A.M. degree in one of the five major courses listed under 5, above.

This course involves the completion of 38 units of work in the department of Education, substantially as given for the preceding course, except that experience in teaching will be assumed and courses 151 and 201 not be included, a substitution will be allowed for 150, and course 153 need not be taken if courses 190 and 192 are to be taken later on. In addition, course 165 must be taken. The remaining units are elective, except that courses 199, 200, and 201 cannot be offered as part of the required hours. Psychology 51 is required as collateral work, and should precede course 165.

For graduation the student must also satisfy the requirements of two Teaching Minors in the School of Education and outside the Department. In certain cases one teaching major will be accepted in place of two teaching minors.

Students coming with advanced or graduate standing from other universities may have substantially equivalent training accepted in lieu of the courses and the major and minor work required here. Students entering in graduate standing, who have had considerable and satisfactory experience in teaching or in school administration, may be given certain credit to apply on undergraduate requirements, the amount to be determined in each case after entering the University.

First Graduate Year; A.M. Degree.—The requirements for the baccalaureate degree cover only introductions to Education, and those proposing to offer themselves for responsible positions in educational work will be expected to proceed at once to the Master's degree. For this at least forty-five units of work will be required. Of this amount at least thirty units must be in courses in Education in advance of the baccalaureate requirements, together with the presentation of a satisfactory thesis, and the satisfaction of the requirements for one of the teaching majors offered in Education will be required. Work listed below course 175 ordinarily will not be included, and ordinarily one-half of the thirty units must be work listed above course 202. The completion of the first year of graduate study should mean a somewhat general acquaintance with the different fields of Education, together with the beginnings of specialization in some one or two of these. Those who desire to prepare properly for the type of positions indicated under 6 or 7 should proceed to the doctorate.

Candidates for the A.M. degree must file an application, approved by the Department, with the Registrar not later than the third week of the second quarter of study for the degree.

Second Graduate Year.—By the end of the second year of graduate study the student will be expected to have attained a mastery of the literature and practice in three of the following divisions of the subject: (1) History of Education, European and American, (2) Theory and Practice of Elementary Education, (3) Theory and Practice of Secondary Education, (4) Organization and Administration of Education, (5)

Educational Psychology and Theory. Elementary Statistical Theory will be included in 4 and 5. Students intending to proceed to the doctorate, either at once or later, may select one of these divisions as a major and one as a minor, and by the end of the second year of graduate study should also have completed in large part the required work in a second minor, outside of the department; should be able to satisfy the modern language requirements (German and French); should be well started on the dissertation; and should be ready for the department and University preliminary examinations.

Any student may do two or more years of graduate work in Education, following the same courses as degree candidates, but without becoming a candidate for the Ph.D. degree.

CANDIDACY FOR THE PH.D. DEGREE.—The minimum residence requirement for the degree is three years beyond the A.B. degree, of which at least the last year must be spent at Stanford. Neither the time element nor the number of courses completed will be considered as acceptable unless the candidate also demonstrates the ability to do intensive work and to carry through an original research in a highly creditable manner. Evidence of broad general knowledge and training also will be expected, as well as technical preparation in major and minor subjects.

All who desire to proceed to the doctorate in Education will be expected to file a petition for candidacy, approved by the Department, with the Registrar (ordinarily during the first quarter of the second year), and to pass an oral or a written departmental test, or both, in three of the five divisions of the field, as given above. These departmental tests will extend beyond the range of the courses offered, and will involve a knowledge of the literature and practice in each field. Only those passing these tests, to the satisfaction of the department faculty, will be considered as fully accepted candidates for the Ph.D. degree, and as such be recommended to the Dean of Graduate Study for the further preliminary examinations for candidacy given by a special examining committee of the faculty, as required by the University regulations as to graduate study.

The University preliminary examinations for candidacy take place before a special examining committee, appointed for each candidate, at the end of the second year of graduate study, or at the latest at the beginning of the third year; they are quite extended in scope and time (three hours); and are intended to cover the candidate's general education and his special preparation in his major and minor subjects.

THIRD GRADUATE YEAR.—The final year will be devoted largely to personal investigation along the lines of the thesis subject, under the direction of the member or members of the department in charge. The thesis "must be the result of independent work, and must in some way add to or otherwise modify what was previously known on the subject." The final examination is before a special University committee, and is mainly on the special field of the thesis.

REQUIREMENTS FOR A PH.D. MINOR.—Unless otherwise arranged, candidates for the Ph.D. degree in other departments, who elect a minor in Education, will be expected, in addition to offering evidence of practical experience in teaching, or school administration, to complete 45 units of work in Education in courses numbered above 174 (half of the work should be in courses listed above 202), and ordinarily to offer such

courses along not more than three of the divisions of the field of Education, as listed on page 177.

The University offers no correspondence or extension courses, and all work for degrees must be registered residence work.

Library and Practical Facilities

The general University Library contains the important recent books, files of the more important educational magazines, both American and foreign, and a collection of early American educational magazines and reports. The special library of the department, consisting of about 8,000 volumes, contains one of the most complete collections of American state and city school reports to be found in the United States, the library ranking probably third in this respect. It is also rich in old college and normal school catalogues and textbooks, of much historical value. The collection of old and present-day school textbooks is also large and valuable.

In practical facilities the department has good working connections with the State Teachers' College at San Jose, and with the public schools of the immediate vicinity. For more important studies by advanced students the large city school systems in the vicinity of the University can usually be made available.

The department also has good working connections with the Department of Psychology, by means of which laboratory facilities for research are fully available to all who need them.

I. Courses of Instruction in Education

The following outline describes the courses that will be offered during the coming year. Additional courses will be provided for the Summer Quarter.

110. Girl Scout Training Course.—A practical course of training in the principles and practices of girl scout leadership.

2 units, winter quarter (Stark) TTh 2:10–3:40
winter, 14

111. Girl Scout Leadership.—A continuation of the preceding course, with troop work, readings, and discussion of work.

2 units (Stark) [Not given in 1924–25]

131. Public Education in America.—A study of some of the more important present-day problems in the organization and administration of public education in the United States, in the light of their historical development. An introductory course. Lectures, following a text, with assigned readings.

3 units, autumn quarter (Cubberley) [Not given in 1924–25]

132. Introduction to the Study of Education.—A study of typical phases of the organization and administration of public education, with a view to presenting such a body of information relating to the work of our public schools as the citizen and the teacher ought to have, and at the same time making the course an introduction to the various fields of education. Lectures, following a text, and assigned readings and reports.

3 units, winter quarter (Sears) MWF 11
winter, 10

133. Educational Theory.—An introduction to a philosophy of education, construed as an integrated view of the conditions and purposes of educational effort; biological infancy, human endowment and culture,

education in relation to the problems of social progress and conservation. Lectures, following a syllabus, with assigned readings.
5 units, winter quarter (DAVIDSON) MTWThF 10
winter, 17

134. Hygiene of the School Child.—A study of the physical basis of education, including such topics as growth, physical defects, health supervision, etc. Lectures following a text, and assigned readings and reports.
3 units, summer quarter (COWDERY) MWF 11
summer, 59

140. Intellectual Education.—Superstition, credulity and irrational belief; propaganda; educational practice and policies for the cultivation of reflective thinking; intellectual motivation; interests: their nature, origin, and growth; the relation of interests and abilities, etc. Dewey's How We Think will be reviewed.
5 units, summer quarter (DAVIDSON) MTWThF 10
summer, 29

142. Education and Character.—A study of the significance for education of the psychology of character. Growth and character; types and individual differences; principles of training; educative agencies.
5 units, winter quarter (DAVIDSON) MTWThF 9
winter, 24

150. Principles of Elementary Education.—An elementary course, intended for those without much acquaintance with elementary school work, and primarily designed to meet the State Board of Education requirement for the Elementary Certificate.
3 units, spring quarter (ALMACK) MWF 9
winter, 1; spring, 60

155. The California School System and Law.—A course on the development and chief features of the California school system, as outlined in the school law for the state. A required course for a teaching certificate of any grade in California.
3 units, autumn quarter (CUBBERLEY) TWTh 4
3 units, *summer quarter, first half (SWETMAN) MTWThF 3
autumn, 77; summer, 140

158. Americanization Work Through Education.—A teacher's course, intended to prepare for this special type of work in the public schools. Required for the California Americanization certificate.
3 units (ALMACK) [Not given in 1924–25]

160. Citizenship and Education.—A teacher's course, as outlined by the State Board of Education, and required of all candidates for a teaching certificate of any grade in California.
3 units, autumn quarter (ALMACK) MWF 9
3 units, *summer quarter, first half (ALMACK) MTWThF 9
winter, 66; summer, 155

165. Educational Psychology, Introductory.—A general introductory course intended primarily for teachers and undergraduate students. Lectures, demonstrations, recitations, reports. Prerequisite: Psychology 51 or the equivalent.
4 units, autumn quarter (STONE) MTThF 11
4 units, *summer quarter (FARNSWORTH) MTThF 11
autumn, 48; summer, 18

167. Silent and Oral Reading.—A course dealing with the recent scientific investigations in reading; general aims and specific objectives; values and methods in oral reading; illustrative lessons in silent read-

ing; problems of measurement, individual differences, classification, materials, diagnosis and remedial instruction. A practical course for superintendents, supervisors, principals, and teachers.

2½ units, summer quarter, second half (STONE) MTWThF 9
summer, 55

170. Mental Deficiency.—The physical and mental traits of the feeble-minded; heredity; medical types; psychological diagnosis; the conduct of special classes, etc. The course will involve visitation of institutions for defectives, observation of special classes, and demonstration tests. A part of the work will necessarily be done away from the University.

3 units, summer quarter (MERRILL) MWF 9
summer, 18

172. Juvenile Problems in Education.—A study of the extent, causes, and prevention of juvenile delinquency, mental deficiency, and other social irregularities related to the work of the public schools and state institutions. Special attention is given to the recent juvenile research developments in California, and to the newer methods of dealing with exceptional children.

2½ units, summer quarter, first half (WILLIAMS) MTWThF 9
summer, 48

175. Education and Modern Social Problems.—A discussion of principles in connection with the following topics: The distribution of educational opportunity; federal aid; education and industry; education and the problems of citizenship and nationality; Americanization of aliens; family, church, and school; liberal education; professional ethics; teachers' unions and organizations; the democratic principles in school administration.

5 units, spring quarter (DAVIDSON) MTWThF 9
spring, 46

177. Rural Education.—A study of the social and economic factors involved in the development of rural institutional life; how these explain the present status of the larger administrative and supervisory problems of rural education; and the principles and practical methods essential to the solution of these problems.

3 units (ALMACK) [Not given in 1924–25]

178. Principles of Education.—A study of the biological and psychological principles underlying modern education, in connection with the demands of modern society in a complex social, economic, and scientific world, with the view to the formulation of a philosophy for the educational process. Class discussion, following the study of a text.

4 units, summer quarter (THOMAS) MTWTh 9
summer, 20

180. History of Education in America.—A study of the evolution of American educational ideals and practices, with special reference to the origin and development of those features of our present-day practices which are most characteristically American. Lectures, following a text, assigned readings, and the investigation of an assigned topic.

4 units, autumn quarter (ALMACK) MTThF 10
4 units, *summer quarter (CUBBERLEY) MTWTh 4
autumn, 50; summer, 94

185a. History of Education.—A study of the development of educational practices and traditions through the Greek, Roman, medieval, and early modern periods in Europe, with the chief emphasis on the foundations

that underlie and the forces that have produced our western civilization and educational systems. Study of a text and sources, with discussions.
2½ units (CUBBERLEY) [Not given in 1924–25]

185b. History of Education.—A continuation of course 185*a*, dealing with the period from about 1750 to the present, tracing the evolution of modern state school systems, and studying the nineteenth century forces which have so profoundly modified life and education.
2½ units (CUBBERLEY) [Not given in 1924–25]

188. Graphic Methods of Presenting Facts.—This course is designed to give practice in the methods which are serviceable in the popular portrayal of statistical data. In addition to graphic presentation, some attention will be devoted to a consideration of the merits of various tabular arrangements of material and to desirable methods of school publicity. There are no prerequisites to the course, but a knowledge of lettering is desirable. Intended primarily to show prospective school officers how best to display statistical facts.
2 units, spring quarter (ALMACK) TTh 10
2 units, *summer quarter, first half (WILLIAMS) MTThF 1–2
autumn, 1; spring, 20; summer, 18

190. Elementary Statistical Methods.—A study will be made of the various kinds of statistical series and the properties of each. The purpose of the first part of the course will be to discover what constitutes the significant features of a body of data. Opportunity to obtain practice in the computation of the important constants of distributions will be given; also in the use of calculating machines and other aids to computation. The approach will be inductive, starting with measures and having as its object the discovery of the statistical resources which are available for making data reveal their story. Psychology 60 may be accepted instead of this course.
4 units, autumn quarter (KELLEY) MTThF 8
4 units, *summer quarter (COWDERY) MTThF 8
autumn, 27; summer, 52

192. Educational Tests and Measurements.—A course dealing with the use and interpretation of educational tests and scales in the administration and supervision of instruction, simple statistical and graphical methods, the significance of scores, and the diagnostic value of the results obtained.
4 units, autumn and *summer quarters (KELLEY) MTThF 10
autumn, 12; summer, 41

195. Principles of Secondary Education.—A course dealing with the aims, purposes, and underlying principles of secondary education, intended for those preparing to teach in secondary schools, and required of all candidates for the California high school recommendation. Open to seniors and graduate students only.
3 units, autumn and *spring quarters (PROCTOR) MWF 8
3 units, *summer quarter, first half (DOUGLASS) MTWThF 10
autumn, 45; spring, 58; summer, 110

196. The Junior High School.—This course will deal with the development, organization, and administration of the junior high school. Methods of teaching, curriculum, types of buildings, etc., will be considered. Particularly designed for those who are candidates for intermediate certificates, or expect to become supervising principals.
3 units, winter quarter (PROCTOR) MWF 8
3 units, *summer quarter, first half (JOHNSON) MTWThF 8
winter, 87; summer, 70

198. The Principles of Vocational Education.—Special emphasis will be given in this course to school problems in vocational education. The need for and the aims of vocational education as well as the various forms of vocational education will be considered. This course is intended for superintendents, principals, teachers, social workers, and others interested in the movement for broader forms of educational opportunity.

2 units, winter quarter (PROCTOR) TTh 8
winter, 37

199. Methods and Management of Instruction.—A practical course in the methods and management of secondary instruction. The psychology of the high school subjects will be considered, and opportunity for directed observation of expert secondary instruction will be given. This course is intended to be a preparation for practice teaching, and should be taken before course 201.

2 units, autumn and *spring quarters (TAYLOR) TTh 8
autumn, 65; spring, 78

201. Practice Teaching.—Practice in the handling of classes and the giving of instruction, with accompanying conferences, six units of credit in such work being required of all inexperienced teachers, by the rules of the State Board of Education, for a California High School Teacher's Recommendation. This may be arranged for at the University, at the State Teachers' College, San Jose, or at any state normal school in California. Those who desire to do practice teaching should secure from the Secretary of the School of Education, or from the Director of Teacher Training, a blank form of application for a practice-teaching position, and fill out and file the same with the Director of Teacher Training during the quarter preceding the one in which they desire to fulfill their practice-teaching requirement. Prospective cadet teachers should confer in advance with Professors PROCTOR or DOUGLASS. Conference with all practice teachers required each week.

3 units, autumn, * winter, and *spring quarters (PROCTOR, TAYLOR) conference M 4:05–5
autumn, 44; winter, 78 (2 groups); spring, 44; summer, 2

202. Criticism and Supervision of Instruction.—A few advanced students, who have had sufficient teaching experience, will be allowed to undertake the personal investigation, in the schools of the vicinity, of problems in instruction or supervision. Collateral reading and detailed written reports will be required. Enrollment only after conference with the instructor concerned.

1 unit, autumn, *winter, and *spring quarters (PROCTOR)
autumn, 1

203. Modern Methods in High School Teaching.—A course for principals, supervisors, experienced teachers, or prospective teachers who have had an elementary course in teaching methods and management. Reading, reports, discussion, and lectures on modern teaching methods, with a consideration of supervised or directed study, socialized methods, and problem-project teaching.

2½ to 3 units, summer quarter, second half (DOUGLASS) MTWThF 10
summer, 74

204. The Administration of Educational and Vocational Guidance.—This course takes up the administrative phases of the entire guidance movement. The use of mental tests, achievement tests, and trade and vocational ability tests in the exploration of pupil ability will be dis-

cussed. Consideration will also be given to methods of gathering and imparting vocational information, and to the technique of educational and vocational counseling. Designed to meet the needs of high school principals and teachers, as well as those who desire to become part-time or full-time counselors.

2 units, autumn quarter (PROCTOR) TTh 8
2½ units, summer quarter, first half (PROCTOR) MTWThF 8
autumn, 24; summer, 58

205. Administrative Problems in Secondary Education.—A number of practical problems relating to the administration of a secondary school, such as organization, curricula, teaching staff, community relationships, part-time education, etc., will be considered. A specific problem will be assigned for individual investigation by each student electing the course. Open to those who have had course 195 or teaching experience, and especially intended for those preparing for administrative work in the secondary field.

2½ units, summer quarter, first half (PROCTOR) MTWThF 9
summer, 37

208. Reading Seminar in Work of High School Principal.

2 units, autumn quarter (PROCTOR) TTh 9
autumn, 13

209. Reading Seminar in Problems of High School Administration.

2 units, winter quarter (PROCTOR) TTh 9
winter, 16

210. Reading Seminar in Vocational Guidance.

2 units, spring quarter (PROCTOR) TTh 8
spring, 16

212. Education and Character: Advanced.—A continuation of courses 140 and 142. Open to students who have had either of these courses or its equivalent.

3–5 units, spring quarter (DAVIDSON) By arrangement
spring, 12

215a. Educational Psychology: Advanced.—Original endowment, mental development, individual differences in relation to heredity, sex, and environment. Lectures and class reports. Prerequisites: Psychology 51 and 165, and either Psychology 60 or Education 190.

4 units, winter quarter (TERMAN) MWF 11
winter, 13

215b. Educational Psychology: Advanced.—A critical survey of the literature of learning, formal discipline, and work and fatigue, with special reference to the school program. Lectures and class reports. Prerequisites: Psychology 51, 55, and 165, and either Psychology 60 or Education 190. It is recommended that Psychology 210 also precede.

4 units, spring quarter (TERMAN) MWF 11
spring, 12

220. Advanced Statistical Methods.—This is a continuation of course 190 and will deal primarily with series of related measures. The statistical methods of analysis of correlated data and the means of combining several measures into total scores will be treated, with particular application to educational and mental test data and problems. Education 190, or Psychology 60, is a prerequisite.

4 units, winter and *summer quarters (KELLEY) MTThF 8
winter, 6; summer, 10

221. Advanced Statistical Methods.—This course is a continuation of Education 220. It deals especially with problems in multiple correlation and with the statistical treatment of known linear, skew, and categorical data. Education 220 is a prerequisite. Course alternates with 270.

4 units (KELLEY) [Not given in 1924–25]

225. Mental Tests.—An introductory course, dealing with the psychological principles of mental testing, test procedure, Binet and group tests, and practical applications. Prerequisites: Psychology 51, and either Psychology 60 or Education 190. Course 55 in Psychology must also accompany or precede.

4 units, autumn and *summer quarters (MERRILL, TERMAN) MWF 2–4
autumn, 6; summer, 10

226. Mental Tests.—Essentially a laboratory course, with one or two lectures weekly. Important types of mental tests will be subjected to experiment and critically evaluated. Course 225 is a necessary prerequisite.

4 units, winter quarter (MERRILL) MWF 2:05–4:05

227. Seminar on School Classification.—A consideration of problems in the grading and classification of school children. Courses 190 and 225, or their equivalents, must accompany or precede this course. Reading and reports.

1 or 2 units, summer quarter (TERMAN) F 3–5
summer, 46

230. City School Administration.—A study of the educational, financial, and administrative principles underlying the proper administration of school systems in cities, with a view to the establishment of principles of action, together with a historical study of the origin of American administrative problems. A thesis on some problem in city school organization or administration, or a survey of some city school system, required of each student.

4 units, autumn quarter (CUBBERLEY) MTWTh 3
autumn, 13

231. Public School Administration.—The general organization of education in the United States (state, county, and city), with a preliminary study of the problems and interrelationships of each. This followed by a more detailed study of the educational, financial, and administrative principles underlying the proper administration of school systems in cities, with a view to the establishment of principles of action. Parallel with this study a historical study of the origin of American administrative problems will be carried along.

5 units [Not given in 1924–25]

233. The Principal and His School.—A practical course, dealing with the organization and administration of a single school, the organization and supervision of instruction, school extension, community relationships, etc. Thesis on some administrative problem required of each student.

4 units, autumn and *summer quarters (ALMACK) MTThF 11
autumn, 16; summer, 34

235. School Surveys and Educational Diagnosis.—A study of the literature relating to school surveys and other forms of educational measurements as a basis for the investigation of practical problems in school administration and supervision. How to organize and conduct a school survey, what to look for, how to collect and interpret data, and how to

set forth the results of the investigation will be important features of the course.

4 units, summer quarter (SEARS) MTThF 2
summer, 36

237. School Buildings and Building Programs.—A study of the fundamental problems involved in schoolhouse planning and construction, including standards of construction, unit cost, types of buildings, janitor service, and building surveys.

3 units, spring quarter (ALMACK) MWF 11
3 units, *summer quarter (ALMACK) MWF 10
spring, 12; summer, 17

240. The Elementary School Curriculum.—A study of the principles underlying the organization of subject-matter for courses in the elementary school, including a critical examination of curricula, syllabi, and school texts in the light of their function in the teaching and administration of the curriculum.

4 units, summer quarter (SEARS) MTThF 1
summer, 27

242. Organization and Supervision of Elementary Education.—A course dealing with the more important problems of organization, management, and supervision of the elementary school, including such topics as grade, departmental, group, and individual systems of class organization; typical promotion schemes; program making; time allotment; grades and marks; records and reports; attendance, and retardation.

4 units, spring quarter (SEARS) MTWTh 3
spring, 8

245. American Teaching Practice.—An appraisement of the procedures employed in the teaching of the elementary school branches in the light of the available experimental and statistical studies bearing upon them. Arranged primarily for principals and supervisors.

3 units (DAVIDSON) [Not given in 1924–25]

247. Seminar in Social Problems.—Devoted to a study of problems in character study and character training, and to certain sociological aspects of public education. Open by permission.

3 to 5 units, summer quarter (DAVIDSON) WF 2–4
summer, 8

250. State School Administration.—A study of the educational principles underlying the proper administration of school systems in states and counties, and involving a comparative study of the school laws and school systems of the various American states. The course includes a study of such topics as federal and state policy, forms of control, revenue and its apportionment, the state and the teacher, the state and the child, private and sectarian education, and state oversight and control.

4 units, winter and *summer quarters (CUBBERLEY) MTWTh 3
winter, 14; summer, 49

251. Current Problems in Public Education.—A seminar type study and discussion of current problems in the organization and administration of public education. Opportunity for individual and group investigations in the following fields: the organization of a national program of education; problems in state and country school administration; problems in the organization of elementary and secondary administrative units; problems in the administration of teacher training institutions.

4 units [Not given in 1924–25]

255. School Finance.—A study of educational finance, including such topics as sources of finance, costs, credit financiering, budget making, and accounting.

4 units, winter quarter (SEARS) MWF 9
winter, 10

260. Practical Administrative Problems.—A study and discussion of a number of practical problems in the organization and administration of a system of public instruction, in cities. Limited to advanced students who have had courses 230, 233, and 250, or their equivalents, and administrative experience.

3 units, winter quarter (CUBBERLEY) TWTh 4
winter, 10

262. Seminar in Administrative Problems.—Open only to properly qualified students who have had satisfactory preliminary courses and experience in school administration.

4 units, spring quarter (SEARS) TWTh 4
2 units, summer quarter, first half (JOHNSON) MTWTh 2
spring, 8
summer, 34

267. Mental Development.—Seminar course. A critical survey of the most important studies of infancy, childhood, adolescence and senescence. Intended primarily for major students in Psychology and Education who are in the second or third year of graduate work. A two-quarter course. Alternates with course 268.

2 units (TERMAN) [Not given in 1924–25]

268. Psychology of Endowment.—A seminar and thesis course. Tests of general intelligence, special abilities, character and personality; the psychology of genius; mental inheritance; race differences, etc. A two-quarter course. Intended for same class of students, and alternates with 267.

3 units, winter and spring quarters (TERMAN) TTh 11
autumn, 9; winter, 8; spring, 8

270. Psychometry.—Essentially a research course. Attention will be given to the analysis of mentality; to the measurement of interest; of special sensory capacity; and of certain specific habits and skills. The bearing upon problems of guidance will be stressed. Admission by permission of the instructor. Course alternates with 221.

4 units, winter quarter (KELLEY) MTThF 10
winter, 7

285. The A. M. Thesis.—All students registering as candidates for the A. M. degree will be expected to spend one quarter in thesis work working in this course, where training in finding materials, bibliography work, thesis organization, etc., will be given, and the student guided to the selection and work on a problem.

1 to 2 units, autumn and *summer quarters (ALMACK) W 11
autumn, 16; spring, 5 (2 groups); summer, 28

290-99. Special Courses.—In addition to the courses listed above, special work in independent investigation will be provided for students prepared to do such advanced work, the nature of the investigation being determined by the student's preparation and needs. Permission to register for any of the following special courses, and the number of units of credit to be given, is subject to individual arrangement. Meetings of the

different groups will be arranged for from time to time, usually in the evenings, for reports as to progress, discussion, and criticism.

The members of the instructing staff stand ready to supervise independent investigations in the following fields:

290. Problems in the history of education. (CUBBERLEY)
291. Problems in the theory of education. (DAVIDSON)
292. Problems in the organization and administration of rural and county-unit education. (ALMACK)
293. Problems in the organization and administration of elementary education. (ALMACK, SEARS)
294. Problems in the organization and administration of secondary education. (PROCTOR)
295. Problems in state, county, and city school organization and administration. (CUBBERLEY, SEARS)
296. Problems in school finance. (SEARS)
297. Problems relating to the school plant. (ALMACK)
298. Problems relating to educational tests, measurements, and statistical procedure. (KELLEY)
299. Problems in intelligence testing and educational psychology. (TERMAN)

autumn, 13 (6 groups); winter, 20 (3 groups); spring, 22 (6 groups); summer, 38 (6 groups)

II. Courses for Teachers of Special Subjects

A number of special courses of instruction, and groupings of courses, designed to prepare teachers for special work in the public schools, have been arranged and are described in the *Announcement of the School of Education* (issued in June). These include courses designed to prepare commercial teachers, manual arts teachers, teachers of home economics (in connection with the San Jose State Teachers' College), and teachers of the various high school subjects.

III. Courses in Other Departments

The following Teachers' Courses, in other departments, ordinarily designated by the number 200, are designed for students preparing to teach special subjects in secondary schools, and are offered in connection with the preparation in the teaching majors and minors, as described in the *Announcement of the School of Education*. Such courses are usually necessary for the Teacher's Recommendation, and may be counted, to the extent of 6 units, as part of the work required in Education. (See *Announcement of the School of Education* for further information.)

a. TEACHER'S COURSE IN CHEMISTRY.—[See Department of Chemistry.]
b. TEACHER'S COURSE IN DRAWING.—[See Division of Graphic Art.]
c. TEACHER'S COURSES IN ENGLISH.—[See Department of English.]
d. TEACHER'S COURSE IN FRENCH.—[See Department of Romanic Languages.]
e. TEACHER'S COURSE IN GERMAN.—[See Department of Germanic Languages.]
f. TEACHER'S COURSE IN GREEK.—[See Department of Classical Literature.]

g. Teacher's Course in History.—[See Department of History.]
h. Teacher's Course in Latin.—[See Department of Classical Literature.]
i. Teacher's Course in Oral Expression.—[See Department of English.]
j. Teacher's Course in Physics.—[See Department of Physics.]
k. Teacher's Course in Spanish.—[See Department of Romanic Languages.]
l. Teacher's Course in Commercial Training.—[See Department of Economics.]
m. Teacher's Course in Journalistic Writing.—[See Department of English.]

DIVISION OF GRAPHIC ART

Arthur Bridgman Clark, Professor.
Chloe Lesley Starks, Assistant Professor.
Edward M. Farmer, Acting Instructor.

The work aims primarily to prepare students for positions as teachers of drawing and art in secondary schools. Many of the courses are also suitable for the practical and general cultural needs of students in other departments.

Intending teachers of art may register with Graphic Art as their major subject.

Requirements for Graduation

A. As preparation for a fifth year.—50 units in Graphic Art, as much work in Education, and in a teaching minor of some subject other than Graphic Art, as will make possible the completion of the requirements for a teacher's certificate in one graduate year.

B. Graduation in fulfillment of requirements for Elementary School Certification.—50 units in Graphic Art, 15 units in each of three subjects chosen from a specific list, and 18 units in Education. (See *School of Education Announcement.*)

C. For the Junior High School Certificate.—The same as B, with 23 units in Education.

D. For Special Certification, Fine Arts Type.—*a.* Elementary and Junior High School Grade, 60 units in Graphic Art and 18 units in Education; *b.* Secondary and Junior College Grade, 90 units in Graphic Art and 23 units in Education.

(For the special lists of subjects required consult the secretary of the School of Education, or obtain Bulletin No. 10, Arts, from the California State Board of Education.)

E. Master's Degree, Including Secondary Teacher's Certificate.—One graduate year including the following: 26 units, including thesis, in Graphic Art; enough units in Education to make the required 27 units; completion of the teaching major or minor (other than in Graphic Art).

1. Still Life and Quad Sketching.—Fundamental principles in blocking, proportion, and light and shade. Subjects, still-life and out-of-door drawings of parts of the arcades of the University. The drawings are large

(20" x 25"), and done with charcoal and colored crayon. The aim of the course is to give readiness and reasonable accuracy in representation. Open to all students.

3 to 5 units, autumn quarter (STARKS) MTWThF 1:05–4:05
autumn, 24

2. Landscape.—Working outdoors in pencil, charcoal, and colored crayons. The chief work of the class is bent toward large 20" x 25" drawings in color, one being made each day, thus developing power to think intently on the essential elements in design, of form, color value, and the selection of significant elements which make pictures. As a necessary accompaniment to the large drawings, each student carries a sketch book in which small notes of compositions are made. From discussions and selection of these the larger subjects are chosen. Open to all students.

5 units, summer quarter (STARKS) MTWThF 9–12
summer, 5

3. Design in Form and Color.—Great advance has been made in recent years in design, both in the development of rich color in surface decoration as applied to textiles and in interior decoration. To develop power in creative expression and color arrangement in prismatic as well as grayed colors, is the object of the course.

The work is done in tempera color with the brush directly, training in the most practical way habits of color analysis and clear thinking. A series of problems is given which begins with the color wheel and the simplest geometric form and leads on through easy steps to elaborate textile designs, rich wall decorations, and the general color design of interiors. This course is prerequsite to Textiles, and Advanced Design. Open to all students.

5 units, autumn, winter, and *summer quarters (STARKS)
Lec. MTWThF 8; Lab. hours at student's convenience
autumn, 3; winter, 9; summer, 14

4. Perspective.—A series of problems in form presentation; in part free-hand, in part drawn with instruments, and involving the various principles of perspective and shades and shadows. The latter part of the course involves drawings from actual buildings. Open to all students and recommended as preparation to course 5.

5 units, winter quarter (CLARK) MTWThF 11
winter, 24

5. Art of House Design.—The course is a systematic study of the fundamental principles which underlie taste, convenience, and economy in house designing and furnishing. The principles and necessity of civic planning are also given brief consideration. The subject matter treated is of such universal interest and importance that the exercises assigned are kept well within the accomplishment of earnest students even though they may have had but little training in drawing. However, a great deal of drawing, both mechanical and free-hand, is required in the course as the most efficient means to the understanding of design in proportion, line, and surface, and sensitiveness to beauty of all kinds. The first half deals with types of exteriors and their design and plans; the second half with interior treatment, furniture, yard, and civic planning. A few trips of observation will be made in the suburban towns toward San Francisco. Previous experience in free-hand and perspective drawing will facilitate

advancement in the course. Open to all students, but courses 1 and 4 are recommended for preparation.

5 units, spring and *summer quarters (Clark) MTWThF 11
spring, 31; summer, 25

6. Lectures on Painters.—First half: The Renaissance from Giotto to Velasquez. Second half: The Nineteenth Century and Present Time. The course is conducted with the use of lantern slides, each student being furnished with a collection of prints selected from the University Prints Series, and blueprints prepared for this course. Open to all students.

5 units, winter and *summer quarters (Clark) (winter) MTWThF 9; (summer) MTWThF 8
winter, 55; summer, 57

100. Handicrafts: Pottery.—The entire process of pottery making from raw materials, including designing, modeling, casting, glazing, and firing bowls, tiles, vases, etc., is carried on by the students in one classroom which is equipped with kiln and pebble mills. Open to students who have had three units of technical work in drawing or design.

5 units, spring and summer quarters (Clark) MTWThF 1:05–4:05
spring, 13; summer, 7

102. Handicrafts: Textiles.—The decoration of textiles in articles for personal use and interior decoration, block-printing, decoration of textiles by dyeing, embroidering, and batik. Open to all students who have had course 3 or its equivalent.

5 units, winter quarter (Starks) MTWThF 1:05–4:05
winter, 13

103. Advanced Color Design.—The application of line, form, and color, as well as textures and materials, to the design of room interiors. Course 3 is prerequisite.

5 units, winter and summer quarters (Starks) MTWThF 8
winter, 4

104. Science Drawing.—A course designed to assist students in scientific illustration. It includes the drawing of simple scientific subjects in pen, outline, line and stipple shading, wash, line and wash. Especial attention is paid to the needs of individual students. Open to science students on advice.

3 units, autumn quarter (Starks) 8–12 by arrangement
autumn, 3

105. Advanced Course in Art of the House.—A more intensive study of house design, furniture design, and other furnishings than is possible in course 5. Open to students who have had courses 1, 3, and 5, or their equivalents.

5 units, spring and *summer quarters (Clark) MTWThF 11
spring, 4

106. Commercial Art.—Autumn quarter, study of figure proportions and representations as used in commercial work. Spring quarter, lettering and poster making. Open only to upper division students.

5 units, autumn and *spring quarters (Farmer) MTWThF 1:05–4:05
autumn, 17; spring, 18; summer, 10

200. Teachers' Course.—For intending teachers of art. Discussions of the aims and methods in drawing and art instruction in the public schools, technical work in review and in preparing courses of study. Open only to upper division students.

3 units, summer quarter (Clark) MWF 9
autumn, 1; spring, 3; summer, 11

201. Special Courses.—Advanced work in connection with courses 1 to 200 will be arranged for graduate students in accordance with their technical needs. The quality of work done rather than the specific course determines when the work is of graduate or of undergraduate character.

For students working for the master's degree weekly conferences are held for direction of work and reports.

(CLARK) By arrangement

ENGINEERING

A. ENTRANCE SUBJECTS

Entering students whose major work is to be in any engineering department should be thoroughly prepared in elementary mathematics, with entrance credit in algebra (preferably two units), plane geometry, and plane trigonometry, in order to be able to take the first year's work in applied mathematics for engineers. Furthermore, it is advisable for them to have entrance credit in mechanical drawing.

Students who expect to complete the requirements for graduation from the Civil Engineering Department in four years should enter with credit for two high-school units in one foreign language, one unit in chemistry, one unit in biological science, and one unit in history, in addition to the foregoing preparation in mathematics.

B. GENERAL COURSES

I. APPLIED MATHEMATICS

[See courses announced by Department of Mathematics.]

II. GENERAL TECHNICAL COURSES

I. Linear Drawing.—A training in the use of drafting implements, the purpose of which is to enable the student to construct accurate pencil drawings and make clean-cut ink lines. Required of all students in Engineering or Geology who have not received equivalent training in high school or elsewhere. Students who have entrance credit in mechanical drawing may not receive university credit for this course.

The instruments and equipment for this course cost from thirty to forty dollars. Students are cautioned against purchasing cheap, poorly made drawing instruments. Such instruments are not suitable for engineering drawing. A list of approved brands of drawing instruments will be found in the textbook "Linear Drawing and Lettering," by J. C. L. Fish. Before purchasing instruments not so listed, the student should consult the instructor.

1 unit, autumn, *winter, and *spring quarters **(THOMAS)**
W 1:05–4:05, or F 1:05–4:05

autumn, 42; winter, 17

2. Lettering.—A training in engineering lettering and title-making. Open to all students, and required of those whose major is in Civil, Mechanical, Electrical, or Chemical Engineering, or in Geology and Mining, whether or not they have entrance credit in mechanical drawing. (This requirement is waived, however, for a student who satisfies the

instructor that he has had the equivalent of this course, by submitting certified work in lettering or by passing a special examination.)

1 unit, autumn, *winter, and *spring quarters (THOMAS)
W 1:05–4:05, or F 1:05–4:05

autumn, 84; winter, 72; spring, 32

3. Descriptive Geometry.—Open to students who have completed or are taking Engineering 1 and 2, or have had their equivalent. It is required of students whose major is in Civil, Mechanical, Electrical, or Chemical Engineering, or in Mining and Metallurgy.

This course deals with principles and methods used in making with mathematical exactness drawings of objects and geometrical magnitudes, and in solving problems involving their space relations, without going into details of shop notes, field notes, machine drawing and design, and topographic and geologic mapping, to which subjects it serves as a preliminary. The principles embodied in the course are limited to those pertaining to the "method of choosing new projection planes," the method almost universally used in engineering practice.

4 units, winter quarter (CUTTER, GREEN)
Rec. TTh 8 or 11; Dft. MT 1:05–4:05, or ThF 1:05–4:05

winter, 85

106. Hydraulics.—Lectures and laboratory problems. Fluid pressure and equilibrium, flow of water through orifices, over weirs, in open and closed conduits. Laboratory: Calibration of instruments. Measurements of pressure, velocity, and flow and friction loss of water under various conditions. Open to students who have completed course *3a* in Applied Mathematics.

5 units, spring quarter (MOSER)
Lec. MWF 9; Lab. MWF 10–12, or TTh 9–12, or MT 1:05–4:05

[NOTE.—See also Hydraulic courses listed under Mechanical Engineering.]

110. Mechanics of Materials.—Lectures and laboratory problems. Strength and elastic properties of the ordinary materials of engineering construction. Simple tension, compression, and shear. Flexure, with application to simple, continuous, and non-homogeneous beams. Long columns, torsion, repeated stress, sudden stress, resilience, etc. Testing strength and elastic properties of materials and structures. Open to students who have completed courses *3a* and *3b* in Applied Mathematics.

5 units, autumn quarter (MOSER)
Lec. MWF 9; Lab. MWF 10–12, or TTh 9–12, or MT 1:05–4:05

autumn, 85

111. Mechanics of Materials.—Continuation of Engineering 110.

5 units, winter quarter (MOSER)
Lec. MWF 9; Lab. MWF 10–12, or TTh 9–12, or MT 1:05–4:05

winter, 26

LABORATORY FEES.—Courses 3, 110, and 111, $1 each; 106, $2.

CIVIL ENGINEERING

CHARLES DAVID MARX, Professor Emeritus.
CHARLES BENJAMIN WING, JOHN CHARLES LOUNSBURY FISH, LEANDER MILLER HOSKINS, LEON BENEDICT REYNOLDS, Professors.
CHARLES MOSER, Associate Professor.
EARL CHARLES THOMAS, Assistant Professor.
WALTER WILLIAM WEGNER, Instructor.

A. Topographic Engineering

20. Elementary Surveying.—Recitations: coördinates of surveying; measurements; errors; surveying methods. Field: exercises in the care, use, and adjustment of instruments; traverse surveys; stadia surveys; leveling; base line measurement and triangulation; astronomical determination of azimuth. Drafting Room: plotting and adjusting traverses; computing areas; plotting profiles; map interpretation. Prerequisite: Engineering 1 and 2, Applied Mathematics 1*a*.

5 units, autumn and *spring quarters (Thomas, Wegner)
Rec. TTh 8; Field and Dft. MTW 1:05–4:05
autumn, 25; spring, 34

21. Advanced Surveying.—Land surveying; topographic surveying; introduction to city, mine, hydrographic and photographic surveying. Prerequisite: course 20.

5 units, autumn quarter (Thomas)
Rec. TTh 9; Field and Dft. WThF 1:05–4:05
autumn, 24; winter, 3

23. Special Surveying.—Special courses intended for students who have completed course 20, or who have had practical experience in surveying, and who are interested in continuing some particular branch of surveying. Open only by permission.

1, 2, or 3 units, autumn, *winter, and *spring quarters (Thomas, Wegner)
By arrangement
autumn, 1; spring, 3

24. Elementary Surveying.—An abridged course intended for Mechanical Engineering students. Care and adjustment of instruments; field exercises with tape; pocket instruments; level and transit. The application of plane surveying methods to mechanical engineering problems will be considered. Open to students whose major subject is Mechanical Engineering and to others only by permission. Prerequisites: Engineering 1 and 2 and Applied Mathematics 1*a*.

2 units, winter quarter (Wegner) Field and Dft. MT 1:05–4:05
winter, 11

25. Engineering Surveys.—The application of surveying to engineering problems. Reconnaissance, preliminary, location, construction, and maintenance surveys pertaining to railroads, highways, waterways, etc. Prerequisites: courses 20 and 21.

4 units, spring quarter (Thomas)
Rec. TTh 9; Field and Dft. WThF 1:05–4:05
spring, 22

126. Special Engineering Surveys.—Courses arranged to meet special needs of students who have completed course 25 above, or have had considerable experience in engineering surveys. (Field work can be done only when two or more students elect to pursue the same work.) Open only by permission.

1 to 5 units (Thomas) By arrangement

B. Engineering Economics

130. Engineering Economics.—The business side of engineering. An analysis of economic factors of engineering practice: the engineer in the field of service, investment choice, estimating, business units, business statistics, valuation, depreciation, economics of service. (Text, written recitations, and problems.) Open to those who have 90 units of credit,

and to others by permission. (Course 131 below may, by permission, be taken at same time as 130.)

3 units, autumn, winter, and spring quarters (FISH) MWF 8
autumn, 15; winter, 26; spring, 22

131. Applied Engineering Economics.—Conditions and requirements of actual engineering practice are duplicated in this course. The student selects, investigates, and reports on a problem, conferring regularly with the instructor. The problem may be concrete or general.

The typical *concrete problem* is to choose between two proposed investments that involve engineering (that is, to choose between two proposed engineering structures, plants, operations, or enterprises, from the standpoint of owner or investor); but the problem may be limited to estimating the cost or the economic promise of a single proposed structure. The student's work consists in analyzing the problem, estimating and combining the factors to complete the solution, and writing a formal report on the whole investigation.

The *general problem* may be either the further study of any of the divisions of engineering economics introduced in course 130 above; or the investigation of the economics of location, design, construction, or operation of a line of transportation (*e.g.*, highway, railway, power line, pipe line, canal); or other similar inquiry. In any case the student's work is systematic reading, problem solving, individual conferences with the instructor, and writing a formal report. Open to those who have credit for or are taking course 130, and to others by permission.

1 or more units, autumn, *winter, and *spring quarters (FISH) By arrangement
autumn, 1; winter, 5; spring, 11

C. Highway and Railroad Engineering

Highway and Railroad Surveying.—See course 25 above.

140. Highway and Railroad Engineering.—The individual study of one or more questions of location, design, construction, or operation of highways or of railroads. Systematic reading, assigned problems, individual conferences with the instructor, and writing a formal report. Open by permission.

1 or more units, autumn, *winter, and *spring quarters (FISH) By arrangement
autumn, 6; spring, 1

D. Structural Engineering

150. Elements of Design.—(1) Materials (see Mining and Metallurgy 105). (2) Analytical and graphical determination of stresses in simple structures. (3) Investigation of distribution of stresses in structural details. Open to students who have completed Engineering 1, 2, and 3, and have taken or are taking Engineering 110 and Mining and Metallurgy 105.

3 units, autumn quarter (WING) WThF 1:05–4:05
autumn, 24

151. Elements of Design.—(1) Wood, stone, brick, lime, cement, etc., studied from engineering standpoint. (2) Bearing power of soils, distribution of pressure, and details of design of simple sub-structures. (3) Designs, working drawings, bills of materials, and estimate of cost of some simple structure, such as a mill building or highway bridge.

(4) Testing physical properties of cement and other masonry materials. Prerequisite: course 150.
5 units, winter quarter (Thomas) Lec. MWF 11; Dft. and Lab. MTW 1:05–4:05
winter, 25

152. Elements of Design.—This course completes the work undertaken in course 151.
5 units, spring quarter (Wing) Lec. MWF 11; Lab. MTWThF 1:05–4:05
spring, 27

153. Elements of Design.—A short course to meet the requirements of students taking their major in Mining, Mechanical, Electrical, or Chemical Engineering. Special applications are made to hoisting and conveying structures, mill buildings, and central station buildings. Open to students who have had Engineering 1, 2, 3, 110, and Mining and Metallurgy 105.
3 units, quarter by arrangement (Wing) By arrangement
autumn, 1; winter, 3; spring, 4

154. Structural Design.—Determination of stresses in modern types of bridges, including cantilever and swing spans, masonry arches, and arch ribs; discussion of most economical types, spans and dimensions of bridges and bridge members; study of methods of constructing subaqueous substructures, shop methods, erection, inspection of material, specifications, and other factors influencing the design of structures. Designs are made by each student to fulfill actual conditions. Prerequisite: course 152.
5 units, autumn quarter (Wing) Lec. TTh 11; Dft. MTW 1:05–4:05
autumn, 13

155. Structural Design.—Continuation of course 154.
5 units, winter quarter (Wing) By arrangement
winter, 2

156. Structural Design.—Continuation of course 155.
3 units, spring quarter (Wing) By arrangement

E. Hydraulic Engineering

160. Collection and Storage of Water.—Design and construction of various types of dams; study of rainfall, evaporation, and runoff; methods of making stream flow measurements; use of hydrographs and mass curves; graphics of dams. This course is devoted to the problems of collection and storage of water for public supplies, power, and irrigation. Lectures, collateral reading, and computations of gravity types of dams. Prerequisites: Engineering 106, 110, 151 (may be taken same quarter).
5 units, autumn quarter (Reynolds) Lec. MWF 10; Dft. TTh 8–11
autumn, 21

161. Development and Distribution of Water.—Capacity, location, and construction of impounding reservoirs; occurrence and use of ground water; hydraulics and construction of wells and infiltration galleries; quantity of water required; conveyance of water in pipes, flumes, canals, and tunnels; distribution systems; fire protection; storage and equalizing reservoirs. This course deals with the development and distribution of water for city, power, and irrigation uses. Prerequisite: course 160.
5 units, winter quarter (Reynolds) Lec. MWF 10; Dft. ThF 1:05–4:05
winter, 20

162. Protection and Purification of Water Supplies.—Normal quality of waters; physical, chemical, and bacteriological examination of water; relation of water supplies to disease; purification of water by aëration, sedimentation, coagulation, and filtration; water softening, deferrization, and sterilization. Lectures, collateral reading, and investigation of some source of municipal supply with report on necessary purification. Prerequisite: course 161.

4 units, spring quarter (REYNOLDS) Lec. MWF 9; Dft. MWF 10–12
spring, 12

F. SANITARY ENGINEERING

170. Municipal Sanitation.—Quantity of separate sewage and storm water; hydraulics of sewers; sewer surveys and investigations; design of sewers and appurtenances; pumping of sewage; estimates of quantities and costs; construction methods; supervision and inspection during construction; operation and maintenance. Collection and removal of refuse and garbage. Recitations, collateral reading, and applications by means of problems. Prerequisite: Engineering 106.

3 units, winter quarter (REYNOLDS) Rec. MWF 8
winter, 21

171. Disposal of Sewage and Municipal Refuse.—Characteristics of sewage; disposal by dilution; treatment by means of screens, sedimentation tanks, activated sludge, contact beds, sprinkling filters, sand filters, irrigation, and disinfection; location, design, operation, and maintenance of plants. Natural and artificial methods of disposal of city refuse. Recitations, collateral reading, and applications by means of problems and designs. Prerequisite: course 163.

5 units, spring quarter (REYNOLDS) Rec. MWF 8; Dft. TTh 8–11
winter, 2; spring, 16

[Students who specialize in Sanitary Engineering are expected to take the following courses in other departments which are designed with the needs of sanitary engineers in mind.]

Economic Biology (course 102).—Elementary Limnology.

3 units, winter quarter (BECKING, PEIRCE)
Lec. and Lab. TTh 8–11; Field W 1:05–4:05

Bacteriology (course 1).—General Bacteriology.

5 units, spring quarter (BLAIR) Lec. MWF 1; Lab. MWF 2–4

G. GENERAL ENGINEERING

180. Specifications and Contracts.—Development of contract principles; varieties of construction contracts; principles of specification writing; study of actual composition and arrangement of a set of specifications covering advertisement, instructions to bidders, proposal, contract, bond, and general clauses; preparation of contracts for engineering services. Lectures, collateral reading, and practice in actual writing of specifications. Open to fourth-year students and to others by permission.

3 units, autumn quarter (REYNOLDS) Lec. MWF 11
autumn, 19

181. Design of Canal, River, and Harbor Structures.—Conferences and designing as per arrangement. Prerequisites: Engineering 106, Civil Engineering 152.

3 units, winter and *spring quarters (WING) By arrangement

LABORATORY FEES.—Course 20, $4; 21, $4; 24, $2; 25, $3; 130, 131, $1 each; 151, $2.

A Four-Year Curriculum in Civil Engineering

Department and No.	First Year — Subjects	Units: Autumn	Winter	Spring
	Language, Literature, etc.	3	3	3
	Citizenship	4	4	4
Appl. Math. 1a	Elementary Analysis	5	—	—
Appl. Math. 1b	Elementary Analysis	—	5	—
Appl. Math. 2a	Differential Calculus	—	—	5
Engineering 1	Linear Drawing	1	—	—
Engineering 2	Lettering	1	—	—
Engineering 3	Descriptive Geometry	—	4	—
Civ. Engr. 20	Elementary Surveying	—	—	5
		14	16	17
	Physical or Military Training	1	1	1
		15	17	18
	Second Year			
English 2	English Composition	—	3	3
	History	3	3	3
Appl. Math. 2b	Integral Calculus	5	—	—
Appl. Math. 3a	Theoretical Mechanics	—	5	—
Appl. Math. 3b	Theoretical Mechanics	—	—	5
Physics 11	Statics Laboratory	—	1	—
Physics 12	Dynamics Laboratory	—	—	1
Civ. Engr. 21	Advanced Surveying	5	—	—
Civ. Engr. 25	Engineering Surveys	—	—	4
Economics 3	Accounting	—	4	—
Mech. Engr. 12	Machine Drawing	3	—	—
		16	16	16
	Physical or Military Training	1	1	1
		17	17	17
	Third Year			
English 7	Extemporaneous Speaking	—	3	—
English 8	Public Speaking	—	—	3
Geology 1a	Engineering Geology	5	—	—
Engineering 110	Mechanics of Materials	5	—	—
Engineering 111	Mechanics of Materials	—	5	—
Engineering 106	Hydraulics	—	—	5
Civ. Engr. 130	Engineering Economics	—	—	3
Civ. Engr. 150	Elements of Design	3	—	—
Civ. Engr. 151	Elements of Design	—	5	—
Civ. Engr. 152	Elements of Design	—	—	5
Mech. Engr. 123	Testing of Engines	—	4	—
Min. & Met. 105	Metallurgy of Iron and Steel	3	—	—
		16	17	16

Department and No.	Fourth Year Subjects	Units Autumn	Winter	Spring
Civ. Engr. 131	Applied Engineering Economics	—	—	3
Civ. Engr. 140	Highway and Railroad Engineering*	3	—	—
Civ. Engr. 154	Structural Design	5	—	—
Civ. Engr. 155	[Structural Design*]	—	[5]	—
Civ. Engr. 160	Water Supply Engineering	5	—	—
Civ. Engr. 161	Water Supply Engineering	—	5	—
Civ. Engr. 162	Water Supply Engineering	—	—	5
Civ. Engr. 170	Municipal Sanitation	—	3	—
Civ. Engr. 171	Disposal of Sewage and Refuse	—	—	5
Civ. Engr. 180	Specifications and Contracts	3	—	—
Mech. Engr. 236	[Pumping Machinery*]	—	[3]	—
El. Engr. 102,122	Electricity in Engineering	—	4	—
El. Engr. 103,123	Electricity in Engineering	—	—	4
		16	15 or 17	17

* In special cases the department may accept, as a substitute for the course so marked, some other course.

[] Only one of these courses need be taken.

Courses Suggested as Suitable for Election by Students in Civil Engineering

Courses Having No Prerequisites.

Economics	6.	Introduction to Statistical Methods. 4 units, spring.
Economics	21.	Public Finance. 4 units.
Mech. Engr.	1.	Forge Practice. 3 units, any quarter.
Mech. Engr.	3.	Foundry Practice. 3 units, any quarter.
Mech. Engr.	5.	Woodworking. 3 units, any quarter.
Mech. Engr.	11.	Free-hand Machine Drawing. 3 units, autumn or spring.
Graphic Art	1.	Still-life Sketching. 3 to 5 units, autumn.
Graphic Art	4.	Perspective. 5 units, winter.
Graphic Art	5.	Art of House Design. 5 units, spring.
Philosophy	1.	Logic. 5 units, autumn.

Courses Requiring Special Preparation.

Appl. Math.	101.	Nomographs. 2 to 4 units, autumn.
Appl. Math.	150.	Practical Astronomy. 3 or 4 units, spring.
Appl. Math.	152.	Adjustment of Observations. 3 units, winter.
Appl. Math.	153.	Geodesy. 3 units, spring.
Bacteriology	1.	General Bacteriology. 5 units, spring.
Econ. Biol.	102.	Elementary Limnology. 3 units, winter.
Economics	5.	Railway Transportation. 4 units, autumn or winter.
Economics	29.	Intermediate Accounting. 4 units, autumn or spring.
Economics	107.	Railway Administration. 2 units, winter.
Economics	113.	Introduction to Cost Accounting. 4 units, winter.
Economics	120.	Corporation and Trust Finance. 4 units, winter.
Civ. Engr.	126.	Special Engineering Surveys. 1 to 5 units, any quarter.
Mech. Engr.	107.	Machine Shop Practice. 4 units, any quarter.
Mech. Engr.	225.	Testing of Hydraulic Machinery. 3 units, autumn.
Mech. Engr.	237.	Hydraulic Machinery and Power Stations. 5 units, spring.
English	8.	Public Speaking. 3 units, winter.
English	131.	Exposition. 4 units, winter.
English	132.	Argumentation. 3 units, spring.
Geology	121.	Common Minerals and Rocks. 4 units, autumn.
Law	100, 101.	Business Law. 3 units, autumn and winter.
Min. & Met.	101.	Principles of Mining. 4 units, autumn.
Polit. Sci.	110.	Administrative Organization. 4 units, autumn.
Psychology	51.	General Psychology. 3 units, autumn.

ELECTRICAL ENGINEERING

Harris Joseph Ryan, Professor.
Henry Harrison Henline, Associate Professor.
Ward B. Kindy, Theodore Harding Morgan, Joseph Snyder Carroll, Instructors.

The department offers courses of instruction for three groups of engineering students:

I. General Group.—Courses 102, 103, and Electricity in Engineering, are offered especially for fourth-year students in civil, mining, and chemical engineering.

II. Dynamic Group.—Courses 104, 105, 106, 124, 125, and 126 are open to all fourth-year students and are offered especially for students in mechanical engineering.

III. Electrotechnic Group.—The department admits as major students only those who have been granted the Stanford A.B. degree in engineering and who have completed the department's courses 104, 105, 106, 124, 125, and 126; and those graduates of other institutions who present corresponding credits. Major students are recommended for the degree of Engineer in Electrical Engineering upon completion of Electrical Engineering courses 207, 208, 210, 219, 240, and 242, Physics 20 or 100 and Applied Mathematics 100 (34 or 36 units), and electives as approved (9 to 20 units); total 45 to 54 units.

Upper Division Courses

102. Electricity in Engineering.—Lectures, questions, demonstrations, operating practicums. Prerequisites: First six quarters of any of the Stanford engineering curricula.

3 units, winter quarter (Henline) TTh 8; Lab. T 1:05–4:05
winter, 16

103. Electricity in Engineering.—Continuation of course 102. Prerequisites: course 102.

3 units, spring quarter (Henline) TTh 8; Lab. T 1:05–4:05
spring, 6

104. Direct Current Machinery.—Introductory study of direct current meters, machines, and auxiliaries. Prerequisites: Applied Mathematics 3: Engineering 3 and 111; Physics 15; and registration in Electrical Engineering 124.

2 units, autumn quarter (Kindy, Morgan) TTh 9 or 10
autumn, 54 (2 sections)

105. Alternating Current Machinery.—Alternating current circuits, instruments, alternators, and transformers. Prerequisites: courses 104 and 124, and registration in course 125.

2 units, winter quarter (Kindy, Morgan) TTh 10 or 11
winter, 59 (2 sections)

106. Electrical Machinery.—Induction and synchronous machines, converters, rectifiers, and transmission lines. Prerequisites: courses 105 and 125, and registration in course 126.

3 units, spring quarter (Kindy, Morgan) MWF 11
spring, 35

124. Direct Current Machinery Laboratory.—To accompany course 104. Prerequisite: registration in course 104.
3 units, autumn quarter (KINDY, MORGAN)
M, W, or F 1:05–4:05, or S 9–12. Quiz by arrangement
autumn, 53 (2 sections)

125. Alternating Current Machinery Laboratory.—To accompany course 105. Prerequisite: registration in course 105.
3 units, winter quarter (KINDY, MORGAN)
M, W, or F 1:05–4:05, or S 9–12. Quiz by arrangement
winter, 57 (2 sections)

126. Electrical Machinery Laboratory.—A course in the characteristic performance of standard electrical machinery and auxiliary apparatus. Prerequisite: registration in course 106.
4 units, spring quarter (KINDY, MORGAN)
M, W, or F 1:05–4:05; or S 9–12. Quiz by arrangement
spring, 37 (2 sections)

COURSES PRIMARILY FOR GRADUATES

207. Electrical Engineering.—A course in general practice relating to equipment and methods as affected by the requirements of economics, reliability, and safety. Required of electrical engineers. Prerequisites: courses 105 and 125.
3 units, spring quarter (KINDY) MWF 8
spring, 16

208. The Electric and Magnetic Circuits.—Class work; essentially a problem course. Prerequisites: courses 106 and 126.
3 units, autumn quarter (CARROLL)
autumn, 14

210. Advanced Electrotechnics.—A course developed with particular reference to the study of the problems of long-distance transmission of energy. Prerequisites: course 208 and Applied Mathematics 100.
3 units, winter quarter (CARROLL) By arrangement
winter, 11

211. Electrical Engineering Practice.—Guidance for the individual in the study of the Transactions of the American Institute of Electrical Engineers and other literature of practice.
5 units, spring quarter (RYAN, HENLINE) By arrangement
autumn, 1; spring, 9

219. Seminar.—A weekly conference for the discussion of current electrical engineering literature and special topics.
1 unit, autumn, winter, and spring quarters (RYAN) By arrangement
autumn, 16; winter, 12; spring, 11

240. High Voltage Engineering Laboratory.
5 units, autumn quarter (RYAN, CARROLL) By arrangement
autumn, 12; winter, 12

241. Communication Engineering Laboratory.—Fundamentals of intelligence transmission. Characteristics of wire lines and accessory apparatus. Prerequisites: courses 105 and 125.
5 units, autumn quarter (HENLINE, MORGAN) By arrangement
autumn, 10; winter, 8

242. Thesis.—Subjects as approved for the individual Electrical Engineering majors.
4 units, winter quarter; 5 units, spring quarter (RYAN, HENLINE)
autumn, 2 (2 groups); winter, 12; spring, 11

243. Research.
(Ryan, Henline) By arrangement
autumn, 4; winter, 9; spring, 9

The Stanford Branch of the American Institute of Electrical Engineers is an organization authorized by the Institute and maintained by the students for the discussion of the Journal of the Institute, and other topics.

Laboratory Fees.—$1 per unit of university credit.

Syllabus Fees.—Applicable to syllabus, lantern slides, and charts; 50c to $1 per course.

MECHANICAL ENGINEERING

William Frederick Durand, Professor Emeritus.
Guido Hugo Marx, William Rankine Eckart, Everett Parker Lesley, Professors.
Charles Norman Cross, Lawrence Edminster Cutter, Horatio Ward Stebbins, Associate Professors.
Boynton Morris Green, Assistant Professor.
Robert Henry Harcourt, James Bennett Liggett, Theron James Palmateer, Edward John Stanley, Teaching Specialists.
Lydik Siegumfeldt Jacobsen, Charles Herbert Smith, Instructors.

The following courses constitute the required work, until Oct. 1st, 1929, of a five years' curriculum leading to the degree of Engineer. Students successfully completing the first four years of this curriculum with sufficient additional units for graduation will be granted the degree of Bachelor of Arts. It is expected that the supplementary courses necessary in order to obtain the number of units required for graduation will be elected in considerable degree among the other engineering courses offered in the department.

First Year (45 units)

Lower Divis'n Group	Subject	Course	Autumn	Winter	Spring
I	Foreign Language	——	3	3	3
	Linear Drawing	Eng'rg 1	1	—	—
	Lettering	Eng'rg 2	—	1	—
	Freehand Machine Drawing	M.E. 11	—	—	3
II	Elementary Analysis	Math. 1a, 1b	5	5	—
	Differential Calculus	Math. 2a	—	—	5
	Chemistry	Chem. 7, 9	2	2	—
III	Citizenship	Citiz. 1, 2, 3	4	4	4
			15	15	15

SECOND YEAR (49 units)

I	English Composition	Engl. 2a, 2b	3	3	—
II	Integral Calculus	Math, 2b	5	—	—
	Theoretical Mechanics	Math. 3a, 3b	—	5	5
	Statics, Dynamics	Physics 11,12	—	1	1
	Heat	Physics 13	—	—	4
	Chemistry (lab.)	Chem. 4	3	—	—
	Descriptive Geometry	Eng'rg 3	—	4	—
	Forge—Foundry	M.E. 1-3	3	—	3
III	History	——	3	3	3
			17	16	16

THIRD YEAR (41 units)

Lower Divis'n Group	Subject	Course	Autumn	Winter	Spring
	Machine Drawing	M.E. 12	3	—	—
	El. Machine Design	M.E. 113	—	4	4
	Pyrometallurgy, Iron & Steel	Met. 105	3	—	—
	Mechanics of Materials	Eng'rg 110	5	—	—
	Hydraulics	Eng'rg 106	—	—	5
	Electricity	Physics 14	4	—	—
	Electricity & Elec. Measurements	Physics 15	—	4	—
	Light	Physics 10	—	2	—
	Pattern Making—Machine Shop	M.E. 6, 107	—	3	4
			15	13	13

FOURTH YEAR (45 units)

			ME	EE	ME	EE
Machine Design	M.E. 114	4	4	4	—	—
Heat Engines	M.E. 132, 133	4	4	4	—	—
Calibration of Engr. Instr'mnts	M.E. 121	3	—	—	—	—
Valuation of Fuels & Oils*	M.E. 122	—	3	—	—	—
Test. of Engs., Boilers, etc.	M.E. 124	—	—	—	3	3
Engr. Reports & Specifications	M.E. 131	—	—	—	3	3
Direct Current Machinery	E.E. 104, 124	5	—	—	—	—
Alternating Current Machinery	E.E. 105, 125	—	5	5	—	—
Electrical Machinery	E.E. 106, 126	—	—	—	—	7
Electives	——	—	—	3	7	—
		16	16	16	13	13

FIFTH YEAR (Approx. 44 units)

Shop Administration	M.E. 210	—	4	—
Advanced Machine Design	M.E. 216	4	—	—
Test. of Hydraulic Machinery	M.E. 225	3	—	—
Test. of Heat Exchangers and Power Plant Aux.	M.E. 226	—	3	—
Applied Thermodynamics	M.E. 234	—	—	4
Central Power Stations	M.E. 235	3	—	—
PumpingMachinery	M.E. 236	—	3	—
Hydraulic Mach. & Power Stas.	M.E. 237	—	—	5
Thesis	M.E. 251	5	5	5
		15	15	14

*This course is elective for students who take 7 units of E. E. 106 and 126.

The above courses represent the requirements for the student entering with full entrance credit, including 1½ units in algebra, 1 unit in plane geometry, ½ unit in trigonometry, 1 unit in physics, 1 unit in chemistry, 2 units in one foreign language, 1 unit in history, 1 unit in biological or general science, ½ unit in mechanical or geometrical drawing, and ½ unit in woodwork. For those not bringing this measure of entrance credit the requirements will be correspondingly greater. There will be in the usual case, and especially for the student carrying more than the normal number of 15 units registration, a considerable amount of additional time for elective work in the various engineering departments or in other departments of the University. Students whose preparatory records show excellence, not only in mathematics and chemistry, but also in general training, may, with the approval of the instructor, omit Mathematics 1*a*, 5 units. For students offering no entrance credit in chemistry, courses 1, 2, 3, and 4 (12 units) must be taken in place of 7, 9, and 4.

Shopwork and Administration

1. Forge Practice.—Three laboratory periods and one lecture per week. One quarter (3 units) required of Mechanical Engineering students.

3 units, autumn, *winter, and *spring quarters (Harcourt) Lec. S 9
autumn, 29; winter, 29; spring, 19

3. Foundry Practice.—Three laboratory periods and one lecture per week. One quarter (3 units) required of Mechanical Engineering students.

3 units, autumn, *winter, and *spring quarters (Liggett) Lec. S 8
autumn, 19; winter, 21; spring, 19

5. Woodworking (prerequisite for M. E. 6).—Three laboratory periods per week. One quarter (3 units) required of students not having entrance credit in woodworking.

3 units, autumn, *winter, and *spring quarters (Stanley)
spring, 1

6. Pattern Making.—Three laboratory periods and one lecture per week. One quarter (3 units) required of Mechanical Engineering students.

3 units, autumn, *winter, and *spring quarters (Stanley) Lec. S 8
autumn, 10; winter, 11; spring, 17

107. Machine Shop Practice.—Three laboratory periods and one lecture per week. Intended for upperclassmen only. One quarter (4 units) required of Mechanical Engineering students. Prerequisites: M. E. 1 and 3.

4 units, autumn, *winter, and *spring quarters (Palmateer) Lec. S 9
autumn, 3; winter, 6; spring, 25

210. Shop Administration.—A course of lectures on workshop organization and administration, factory accounting, wage systems, selection of machinery, factory methods, etc. Prerequisites: courses 1 to 107 inclusive.

4 units, winter quarter (Lesley)
winter, 12

Machine Drawing and Design

11. Free-hand Machine Drawing.—Practice in making free-hand sketches of machine parts, and their dimensioning in practical form for use in the shop, the sketches being made according to the principles of

orthographic projection. The aim is to train the student in the reading of machine drawings through making a considerable number of sketches from actual machines and machine parts, and at the same time to familiarize him as much as possible with the actual machine parts. Open to all students, and required of students in Mechanical Engineering. (Nine hours a week.)

3 units, spring and autumn quarters (CUTTER, GREEN, JACOBSEN) TTh 9–12; MTWThF 1:05–4:05

autumn, 35; spring, 35

12. Elementary Machine Drawing.—Practice in making working drawings of machine parts, and in making tracings from these drawings. The purpose of the course is not only to train the student in the technique of drafting and dimensioning, but also to familiarize him wtih the elements of machines, and, therefore, no drawings are made from copy, but all are made from the student's own sketches of the actual model. (Nine hours a week in drafting-room; three hours' work for one unit credit.) Prerequisites: courses 1, 2, and 3 in Engineering, or their equivalents; and, for Mechanical Engineering students, course 11 in Mechanical Engineering.

3 units, autumn and *spring quarters (CUTTER, GREEN, JACOBSEN) TTh 9–12; MTWThF 1:05–4:05

autumn, 55; spring, 25

113. Elementary Machine Design.

a. Function of machines; motion, force, and work in machines; analysis of mechanism; velocity, acceleration, and effort diagrams; parallel motions; cams; ratchets; toothed wheels; valve gear analysis and design. The aim is, not merely to present a course in pure mechanism, or kinematics, but also—by the introduction of the consideration of force, work, and energy, as well as motion—to show the purposes for which the mechanisms are used and the manner in which they function.

3 units, winter and spring quarters (MARX) Lec. MWF 8

winter, 42; spring, 45

b. Drafting course applying the principles treated in *a.* (Three hours a week drafting, winter and spring quarters.) (1 unit.) Prerequisites: course 12 in Mechanical Engineering and courses 1, 2, and 3 in Engineering. Courses *a* and *b* must be taken together and are required of students in Mechanical Engineering.

1 unit, winter and spring quarters (GREEN) Dft. W 1:05–4:05

winter, 43; spring, 43

114. Machine Design.—Study of machine elements, such as bolts and screws; riveted joints, pressure vessels, and boiler design; keys, fits and fitting; axles, shafts, and spindles; journals, bearings, friction, and lubrication; ball and roller bearings; sliding surfaces; couplings and clutches; gear, belt, rope, and chain transmission systems; flywheels; brakes; springs; frames and supports; cylinders, etc.; leading to the design of complete simple machines. (Two hours a week recitations and lectures, six hours in the drafting-room, throughout the year.) Open to students who have completed course 113 in Mechanical Engineering, course 105 in Mining and Metallurgy, and who are taking course 110 in Engineering; two quarters required of students in Mechanical Engineering.

4 units, autumn, winter, and spring quarters (MARX) Lec. TTh 8; Dft. TTh 1:05–4:05

autumn, 46; winter, 49; spring, 10

115. Applications of Theory of Elasticity.—A study of the results obtained by the theory of elasticity, rather than a study of the theory itself, including: statically indeterminate systems, stress-concentrations, experimental determinations of stresses, elementary vibration problems, critical speeds, etc. Open to students who have completed two quarters of course 114 in Mechanical Engineering. A course in differential equations is highly desirable as a prerequisite.

2 units, spring quarter (JACOBSEN) Lec. MW 11

spring, 7

216. Advanced Machine Design.—Design of complete machines. Students may elect machine tools, cranes, steam or gas engines, or special problems. (One lecture and nine hours drafting per week.) Intended for fifth-year students who have completed courses 114, 132, and 133.

4 units, autumn quarter (MARX, CUTTER, GREEN, JACOBSEN)
Lec. F 10; Dft. 1:05–4:05 by arrangement

autumn, 6

EXPERIMENTAL ENGINEERING

[NOTE.—Laboratory sections in experimental engineering will be arranged in groups of three students. Insofar as the laboratory schedule permits, students will be allowed, with due regard to priority of application, to arrange their own sections and laboratory periods. Enrollment, with the instructor concerned, on registration day or the first day of university instruction, is essential in order both that the laboratory schedule may be prepared and a lecture period selected to meet the requirements of the class as a whole. Enrollment later than the first week will not be permitted under any circumstances.]

121. Calibration and Use of Engineering Instruments.—Including thermometers, gas and steam meters, planimeters, steam engine indicators, absorption brakes, transmission dynamometers, and steam calorimeters. (One lecture, three hours in the laboratory, and ten hours on reports per experiment.) Open to students who have completed Chemistry 1 and 4, Mathematics 2*b*, and Physics 11, 12, 13. Required of students in Mechanical Engineering.

3 units, autumn quarter (STEBBINS, SMITH)
Lec. TTh 9; Lab. 1:05–4:05 by arrangement

autumn, 55

122. Valuation of Fuels and Oils for Engineering Purposes.—Includes determinations of the proximate analysis of coal; the calorific value of coals, fuel oils, and gas; the moisture contents of fuel oils; the density, viscosity, flash, burning, and chill points of oils, and the coefficient of friction of lubricated bearings. (One lecture, three hours in the laboratory, and ten hours on reports per experiment.) Open to students who have completed courses Chemistry 1 and 4, Physics 13. Required of students in Mechanical Engineering. (Elective for students who take 7 units of courses E. E. 106, 126.)

3 units, winter quarter (STEBBINS, SMITH)
Lec. TTh 9; Lab. 1:05–4:05 by arrangement

winter, 58

123. Heat Engines, Theory and Laboratory.—A brief course covering the fundamentals of theory and the general methods of testing steam boilers, engines and turbines, gas engines and air compressors. (Two lectures per week and seven experiments, each requiring three hours in the laboratory and about twelve hours on reports.)

Open to all engineering majors (except Mechanical Engineers) who have completed Physics 13, Mathematics *3a*, *3b*, and Engineering 106.
4 units, winter quarter (ECKART) Lec. TTh 11; Lab. 1:05–4:05 by arrangement
winter, 18

124. Testing of Engines, Boilers, and Compressors.—Includes valve setting, flue gas analysis, economy tests of steam engines, and steam turbines, gas engines, boilers, and air compressors. (One lecture, three hours in the laboratory, and ten hours on reports per experiment.) Open only to students who have completed Mechanical Engineering 132, 133; required of students in Mechanical Engineering.
3 units, spring quarter (STEBBINS, SMITH) Lec. TTh 11; Lab. 1:05–4:05 by arrangement
spring, 57

225. Testing of Hydraulic Machinery.—Includes tests of centrifugal, rotary, jet, and steam pumps, pulsometers, hydraulic rams, water wheels, and hydraulic turbines. (One lecture, three hours in the laboratory, and ten hours on reports per experiment.) Open to students who have completed Engineering 106 and Mechanical Engineering 123, or 124, and 132.
3 units, autumn quarter (ECKART) Lec. TTh 8; Lab. 1:05–4:05 by arrangement
autumn, 10

226. Testing of Heat Exchangers and Power Plant Auxiliaries.—Includes tests of feed water heaters, economizers, condensers, injectors, blowers, turbo-compressors, and refrigerating machinery. (One lecture, one conference, three hours in the laboratory, and ten hours on reports per week.) Open to students who have completed courses 124 and 225.
3 units, winter quarter (ECKART) Lec. TTh 8; Lab. 1:05–4:05 by arrangement
winter, 6

227. Testing of a Complete Power Plant.—A comprehensive test which reviews and coördinates the work of courses M. E. 121, 122, 124, 225, and 226. The work includes the planning and arranging of all details, the calibration of all instruments, preliminary runs for valve and other adjustments in accordance with the code of the A. S. M. E. A final report to be made by the section as a whole, copies being prepared for each student and one for the laboratory files. Open only to students who have completed M. E. 121, 122, 124, 225, and 226; will not be given unless at least six students register.
2 units, spring quarter (ECKART) By arrangement

230. Experimental Investigation of Mechanical Engineering Problems.—Open to all students who have completed courses 121, 122, and 124 and whose work has indicated their ability to carry on successfully advanced work of this nature. (A complete report of all work must be prepared for the laboratory files.)
3 to 6 units, autumn, *winter, and *spring quarters (ECKART, STEBBINS, SMITH) By arrangement

POWER PLANT ENGINEERING

131. Engineering Reports and Specifications.—Practice writing, with occasional lectures. Required of fourth-year students in Mechanical Engineering.
3 units, autumn and *spring quarters (LESLEY)
autumn, 24; spring, 38

132. Heat Engines.—Mechanical theory of heat and its applications. Fourth-year students in Mechanical Engineering. Prerequisites: Mathematics *2a*, *2b* and Physics 11, 12, and 13.

4 units, autumn quarter (Cross, Smith) Lec. MWF 10; office work as arranged
autumn, 50

133. Heat Engines.—Continuation and application of course 132. (Three lectures and three hours office work per week.) Required of fourth-year students in Mechanical Engineering.

4 units, winter quarter (Cross, Smith) Lec. MWF 10; office work as arranged
winter, 46

234. Applied Thermodynamics.—Continuation of courses 132, 133. Irreversible operations, flow of gases and vapors, design of turbine nozzles. Application of thermodynamic theory to advanced and special problems. Prerequisite: courses 132 and 133. Required of fifth-year students in Mechanical Engineering. (Three lectures and three hours office work per week.)

4 units, spring quarter (Cross) Lec. MWF 10; office work as arranged
spring, 2

235. Central Power Stations.—Study of the principal problems presented by the design and operation of modern central power stations driven by heat prime movers. (Two lectures and three hours office work per week.)

3 units, autumn quarter (Cross) Lec. TTh 9; office work as arranged
autumn, 6

236. Pumping Machinery.—Discussion of the principal problems arising in the design and operation of pumping machinery of various types, direct, centrifugal, rotary, propeller; and for various purposes, general service, boiler feed, fire service, mine drainage, irrigation, municipal supply, oil line service, etc. (Two lectures and three hours office work per week.) Prerequisites: course 132 and Engineering 106.

3 units, winter quarter (Cross) Lec. MWF 9; office work as arranged
winter, 27

237. Hydraulic Machinery and Power Stations.—Elements of hydraulic machinery with special reference to prime movers. Elements of the design of hydraulic power stations with special reference to modern hydroelectric practice; general control of water in tunnels and penstocks, surge chamber, control of surges and shocks, valves and regulating devices, penstocks and their installation, selection of units, characteristics of impulse and reaction types, speed regulation, installation tests, and special problems. Prerequisite: Engineering 106. (Four lectures and three hours office work per week.)

5 units, spring quarter (Eckart) Lec. MTWTh 9; office work as arranged
spring, 8

238. Power Plant Economics.—A brief study of fundamental financial calculations, equipment costs, best type of prime mover, economic size of units, load curves. (Two lectures per week with problems.)

3 units, spring quarter (Cross) Lec. TTh 10
spring, 4

Aëronautics

141. Aërodynamic Laboratory.—Experimental investigation of airplane propellers and other aërodynamic problems.

3 units, autumn, *winter, and *spring quarters (Lesley) By arrangement
winter, 7; spring, 3

SPECIAL RESEARCH

251. Thesis.—Investigation of some engineering problem. Required of candidates for degree of Engineer.

2–15 units, autumn, *winter, and *spring quarters (Entire STAFF) By arrangement

autumn, 4; winter, 3; spring, 3

FEES.—Courses 1, 3, 5, 6, and 107, $10 each; course 227, $3; courses 121, 122, 123, 124, 225, and 226, $5 each; course 230, $1.50 per credit hour; courses 113*b*, 234, 235, 236, 238, 50c each.

ENGLISH

*RAYMOND MACDONALD ALDEN, JOHN S. P. TATLOCK, Professors.
REED SMITH (University of South Carolina), Acting Professor.
WILLIAM DINSMORE BRIGGS, HENRY DAVID GRAY, HOWARD JUDSON HALL, SAMUEL SWAYZE SEWARD, JR., MARY YOST (Dean of Women), Associate Professors.
ARTHUR GARFIELD KENNEDY, EDITH RONALD MIRRIELEES, FRANCES THERESA RUSSELL, Assistant Professors.
MARGERY BAILEY, FREDERICK H. LAPE, GEORGE POPE SHANNON, Instructors.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

a. The courses ordinarily prescribed in the major subject include Chaucer, Shakespeare (courses 25 and 159), the advanced courses (181, 182, 183, 184) in the history of English literature (four quarters), and an advanced course in a single author (as Milton, Wordsworth, or Spenser), besides such preliminary courses in composition, vocal expression, or literature as may be advised in individual cases. In the advanced courses in English literature one of two substitutions may be made: (*a*) for course 182, the course in Elizabethan Drama (170); or (*b*) for course 183, the course in Modern English Fiction (168). (For the requirements in the case of students making English their major subject with special reference to public speaking or journalism, see below under the Divisions of Public Speaking and Journalism.)

b. It is required also that each student pursue in one foreign language and literature work sufficient for the accomplishment of two ends, (1) a practical reading knowledge of the language chosen, and (2) some acquaintance with its most important literature. This requirement is not primarily a matter of formal credit-hours, but will ordinarily be found to demand a minimum of 24 units of college work in the chosen language, aside from elementary courses (two years in the high school or one in the university). Students should be sure that their language studies are so planned as to accomplish the ends desired. Introductory courses in Latin and Greek, if pursued in the university, will be counted as college work. Those who make Latin or Greek their principal language are advised, in general, to include two years of work in a modern lan-

* Deceased September 27, 1924.

guage among their elective studies; and those who have chosen a modern language are encouraged to include among their elections two years of work in Latin or Greek.

c. A course in English history is also prescribed for those who have not had a separate course in the subject in the high school.

Certain courses (such as 21 and 168, 14, 23, and 27), which cover more or less of the same ground, may not be elected by the same student without consultation with the instructors.

The Teacher's Recommendation.—The High School Teacher's Certificate is granted by the state to students who have fulfilled the state requirements as set forth in the *Information* bulletin, involving for applicants without experience one full year of graduate study. Recommendation by the department is granted by vote to students whose work has been of high character. It should be distinctly understood that a mere passing grade does not entitle a candidate to the endorsement of the department. For major students of the department the courses ordinarily prescribed, in addition to those required for the degree of A.B., are The History of the English Language (198), Versification (199), and Teachers' English (200). For the courses required of students of other departments who seek a recommendation in English, as a major or minor subject, see the *Announcement of the School of Education.*

Advanced Degrees

The candidate for the Master's degree in English must have: (1) the equivalent of the requirements for the A.B. degree in English; (2) an elementary knowledge of Old English; (3) a reading knowledge of two foreign languages (preferably one ancient and one modern). The work for the degree must occupy at least one full year of graduate study in residence, the greater part in English, the remainder in related fields. The courses in English will be divided between the earlier and later periods. The candidate must present a thesis prepared under the direction of a member of the department and demonstrating the candidate's power of concentrated, independent study; this thesis may be accepted in lieu of not more than nine units of the work in the course. In addition, he will be given a general examination on English literature.

For the conditions for acquiring the doctor's degree, see the *Graduate Study* bulletin.

Lower Division Courses

[In general, courses 9–18 are open to first-year students; courses 21–27 are open to second-year students.]

A. Elementary Composition.—A one-quarter course required of all first-year undergraduates who do not pass the matriculation test in English.

1 unit, autumn, *winter, and *spring quarters (Bailey and others)
TThS 8; MWF 8, 9, 1:05
autumn, 58 (3 sections); winter, 159 (8 sections); spring, 95 (5 sections)

[For each student in course A, except those who meet the requirement within a short time, a fee of $10 is charged.]

2. English Composition.

a. Narration and Description.

b. Exposition.
3 units, any two quarters (SEWARD, HALL, MIRRIELEES, YOST, and others) TThS 8; MWF 8, 9, 10, 11, 1:05
autumn, 332 (13) sections; winter, 413 (16 sections); spring, 256 (12 sections); summer, 53 (2 sections)

9b. American Literature.—From the Civil War to the present. Not open, except by special permission, to students having entrance credit in American literature. Open to seniors only with reduced credit.
3 units, summer quarter (HALL) MWF 11
summer, 26

10. English Masterpieces.—A study of representative works of important English writers. May be taken two quarters, to the extent of eight units of credit. (*a*) Writers before 1700 (3 units); (*b*) writers of the 18th and 19th centuries (5 units). Open to other than first-year students only by permission. Not open to those who intend to make English their major subject.
3 or 5 units, any quarter (MIRRIELEES, BAILEY, SHANNON, LAPE) autumn and spring (*a*) MWF8; (*b*) MTWThF 11; winter (*a*) MWF 11; (*b*) MTWThF 8
autumn, 139 (2 sections); winter, 81; spring, 115 (2 sections)

11. Introduction to Poetry.—A study of the nature, methods and forms of poetry, with exercises in analysis and interpretation. Open to students of all departments; to seniors only with reduced credit.
4 units, winter quarter, MTWF 9; 3 units, summer quarter (SEWARD) MWF 9
summer, 4

12. Introduction to Essay Reading.—Essays, chiefly modern, designed to form a stimulating approach to this type of literature.
3 units, summer quarter; 4 units, autumn quarter (RUSSELL) MTWF 10
autumn, 42; summer, 28

13. Biography.—A study of biographies and memoirs, with written reports. Limited to Lower Division students.
3 units, spring quarter (MIRRIELEES) MTW 10
spring, 49

14. Tennyson.—A study of portions of Tennyson's poems, illustrating the growth of his literary art. A general course, designed for Lower Division students, and open to others by permission only.
4 units (HALL) [Not given in 1924–25]

17. Contemporary Poetry.
3 units, spring quarter (GRAY) MWF 9
spring, 42

21. Victorian Novelists.—A study of the more important Victorian novelists.
4 units, winter quarter (SEWARD)
winter, 25

22. Victorian Prose.—A study of the more important Victorian prose writers, other than novelists.
3 units, winter quarter (SEWARD) [Not given in 1924–25]

23. Victorian Poetry.—A study of the more important Victorian poets.
3 units, one quarter (SEWARD) [Not given in 1924–25]

24. English Bible.—Representative portions of the Old Testament studied as literature.
3 units, autumn quarter (GRAY) MWF 10
autumn, 50

25. Shakespeare.—An introduction to Shakespeare, with rapid reading of a considerable number of the plays in chronological sequence. Open to all second-year students; continued, for more advanced students, in course 159.

4 units, spring quarter (BAILEY) MTWF 10
spring, 58; summer, 1

27. Browning.—An introductory course, open to all students.

3 units, spring quarter (RUSSELL) MWF 9
spring, 32

ADVANCED COURSES

[Unless otherwise specified, the following courses are open to third-year and fourth-year students of all departments.]

130. Advanced Composition.—A course intermediate between the elementary and the more specialized branches of written expression. Practice in various forms, with formulated criticism and illustrative reading.

4 units, autumn quarter (RUSSELL) MTWF 9
autumn, 25

131. Exposition.—An advanced course, intended primarily for students in scientific and professional lines. Special attention will be given to students preparing theses or other papers. Prerequisite: course 2 or an equivalent.

3 units, summer quarter (HALL) MWF 10
summer, 8

132. Argumentation.—[See under Division of Public Speaking.]

134. Dramatic Composition.—The principles of dramatic writing developed in connection with the student's own work. Enrollment limited; students must submit specimens of their work in advance.

3 units, autumn and winter quarters (GRAY) MWF 1:05
autumn, 12; winter, 8

135. Verse Writing and Prosody.—Practical exercises in lyric composition, with illustrative study of modern poets.

3 units, spring quarter (————) [Not given in 1924–25]

136. Short Story Writing.—A study of the structure of the short story, with practice in story writing. Open by permission to qualified upperclassmen.

3 units, winter and spring quarters (MIRRIELEES) MTW 9
winter, 29; spring, 15

137. Essay Writing.—Preparation of magazine articles, criticisms and papers of both informal and analytical character. Prerequisite: course 2.

3 units, spring quarter (RUSSELL) MWF 10
spring, 19

138. Narrative Writing.—Open by permission to students who have completed course 136.

4 units, winter quarter (MIRRIELEES) [Not given in 1924–25]
winter, 1; spring 1

139. Directed Reading.—Eight hours of reading weekly, with informal reports and discussion. The course furnishes an opportunity for students to read books with which they should be familiar, but which are not assigned in connection with their other courses. Open to a limited number of upper-class students from other departments; not to English major students. May not be taken for more than two quarters.

2 units, autumn, winter, and spring quarters (GRAY, and others) MT 4, 5
autumn, 62 (10 groups); winter, 59 (10 groups); spring, 72 (13 groups)

154. The Short Story.—A study of the short story in English, with especial attention to its development during the nineteenth century.
5 units, autumn quarter (Mirrielees) MTWThF 9
4 units, summer quarter (Smith) TWThF 1:05
autumn, 48; winter, 11; spring, 5; summer, 42

156. Ballads.—Lectures and reports on the theory of ballad composition and on characteristic forms. Class limited to sixteen.
3 units, one quarter (Bailey) [Not given in 1924–25]

158. Chaucer.—An elementary course, including an outline of Middle-English grammar for the beginner. Open to third-year students who have a reading knowledge of one foreign language.
3 units, autumn quarter (Kennedy) MWF 10
autumn, 51

159. Shakespeare.—A continuation of course 25, devoted to a more intensive study of a few plays. Designed primarily for English major students in their third year; open to others on recommendation from course 25.
3 units, winter quarter (Gray) MWF 9
winter, 39

160. Spenser.
3 units, one quarter (Briggs) [Not given in 1924–25]
summer, 21

161. Milton.
3 units, spring quarter (Briggs) MWF 10
spring, 33

162. Wordsworth.
3 units, spring quarter (Hall) MWF 8
spring, 25

163. Browning.—Either The Ring and the Book or a selection from the dramas and longer poems (the shorter poems being studied in course 27).
4 units, summer quarter (Russell) MTF 9
summer, 38

168. English Fiction.—A course in the history of English fiction from DeFoe to the greater novelists of the nineteenth century.
5 units, spring quarter (Briggs) [Not given in 1924–25]

169. The Modern Novel.—Lectures on European fiction from 1856 to the present time, with the reading of representative novels and reports upon them. Open to third-year and fourth-year students of all departments.
3 units, winter and spring quarters (Gray) MWF 10
winter, 38; spring, 37

170. The English Drama to 1642.—The beginnings and development of the drama.
4 units, winter quarter (Briggs) TWThF 11
winter, 9; summer, 20

171. Modern Drama.—A study of Ibsen and of contemporary dramatists. Open to third-year and fourth-year students of all departments.
5 units, winter quarter (Gray) [Not given in 1924–25]

173. Contemporary Poetry.—A survey of English and American poetry since 1890, with especial attention to the poetic revival of the present time.
3 units, spring quarter (Gray) [Not given in 1924–25]

174. The English Essay.—A study of the essay as a type, from Bacon to the nineteenth century.
3 units, one quarter (Russell) [Not given in 1924–25]

175. Modern Essays.—A continuation of course 174, extending from the middle of the nineteenth century to the present.
3 units, winter quarter (Russell) [Not given in 1924–25]

181. Medieval Literature, with special reference to Middle English.—The course will serve as a general introduction to medieval European literature, which is studied by types: romances, histories, lyrics, fabliaux, etc. This course is continued in 209.
4 units, winter quarter (Tatlock) MTWF 11
winter, 32

182. English Literature from 1557 to 1660, exclusive of the Drama.—Primarily for fourth-year students of the English Department.
4 units, spring quarter (Briggs) MTWF 11
spring, 27

183. English Literature from 1660 to 1780.—Primarily for third-year students of the English Department.
4 units, autumn quarter (Bailey) MTWF 9
autumn, 50

184. English Literature from 1780 to 1832.—A continuation of course 183.
4 units, winter quarter (Tatlock) MTWF 10
winter, 51

185. English Literature and Political Thought.
4 units, autumn quarter (Briggs) MTWF 11

186. Criticism.
3 units, autumn quarter (Russell)
autumn, 11

[The following courses (190–199) are designed for both graduate and advanced undergraduate students, and are accepted for graduate credit in the program of candidates for advanced degrees.]

190. American Poetry.—A study of the greater American poets with especial reference to their relation to English and Continental literature.
4 units, winter quarter (Hall) [Not given in 1924–25]

191. Essay Writing (advanced course).—An opportunity for the crystallizing and formulating of opinions on such subjects as education, government, recreation, art, and personal relationships. Open only on consultation with the instructor.
3 units, spring quarter (Russell) [Not given in 1924–25]

192. Old English.—Elements of Old English grammar, with reading exercises.
4 units, winter and summer quarters (Kennedy, Tatlock) MWThF 9; 1:05
winter, 13; summer, 13

193. Beowulf.
4 units, one quarter (Kennedy) [Not given in 1924–25]

194. Middle English Readings.
3 units, winter quarter (Kennedy) MWF 8
winter, 3

195. The Bible in Early English.—Lectures, with readings in translation.
3 units, spring quarter (Kennedy) [Not given in 1924–25]

197. Ideal Commonwealths.—A study of the Utopian idea and related social and political conceptions, as expressed in literature.
3 units, one quarter (Russell) [Not given in 1924–25]

198. The Modern English Language.—A study of usage in pronunciation, grammar, etc., in the light of the history of the language.
3 units, spring quarter (Kennedy) MWF 9
spring, 18

199. Versification.—An introduction to the theory of rhythm and meter, the history of English prosody, and the problems of reading and teaching verse.
3 units, autumn quarter (Seward) MWF 9
2 units, summer quarter TTh 10
autumn, 9; winter, 10; summer, 19

Teachers' Course

200. Teachers' Course in English.—A study of principles and methods, with special reference to secondary schools.
a. Composition (autumn quarter). *b.* Literature (winter quarter). Courses 200*a* and 200*b* also given as a continuous course of 5 units in the summer quarter. For 200*c*, *d*, and *e* see the Divisions of Public Speaking and Journalism.
3 units, autumn and winter quarters (Seward) MTh 2:30–4
5 units, summer quarter MTWThF 11
autumn, 9; winter, 11; summer, 67 (2 sections)

Graduate Courses

201. Bibliography and Methods.—An introduction to the materials and methods of advanced study in English. Recommended for all candidates for higher degrees.
3 units, autumn quarter (Kennedy) MWF 9
autumn, 15

202. Satire.—A study of the satiric element in literature, exemplified by some particular phase selected for specialization.
4 units, spring quarter (Russell) MW 2–4
spring, 13

204. Comedy.—An inquiry into the nature of the comic and into its literary uses, as exemplified especially in the drama.
4 units, autumn quarter (Seward) [Not given in 1924–25]

209. Medieval Literature.—A continuation of course 181, but may be taken by students who have not had the latter. Especial attention is paid to Dante and Chaucer.
3 units, one quarter (Tatlock) [Not given in 1924–25]

210. Chaucer (advanced course).—The Canterbury Tales, or the Troilus, will be studied, with attention to the structure and history of the work and its literary significance.
3 units, summer quarter (Tatlock) By arrangement
summer, 10

212. Shakespeare.—A critical study of one or two plays.
4 units, autumn quarter (Gray) MTh 2–3:30
autumn, 16

215. Elizabethan Drama Seminary.
4 units, spring quarter
a. Webster and Ford, spring quarter (Gray) MTh 2–3:30
b. Jonson, one quarter (Briggs) [Not given in 1924–25]
spring, 8

216. The Life and Thought of the 16th Century.
4 units, autumn and winter quarters (Briggs) By arrangement
autumn, 15; winter, 16

217. Eighteenth Century.—A study of the age of Johnson, with especial emphasis on the changing standards of criticism.
3 units, winter quarter (Bailey) By arrangement
winter, 9

218a. Early English Seminary.—Legendary history of Britain.
3 units, spring quarter (Tatlock) M 4–5; W 4–6

218b. Early English Seminary.—The Siege of Troy in English literature.
3 units, one quarter (Tatlock)
winter, 10

220. American Colonial Literature.—A research course. Prerequisites: American history and English literature of the 18th century.
4 units, summer quarter (Hall) MW 3–5
summer, 9

222s. Lyric Poetry.—Analysis of poetic principles, with special reference to the lyric; comparison of various lyric types; wide reading, with discussion of the modern spirit in contrast with the older poetic tradition.
4 units, summer quarter (Smith) By arrangement
summer, 26

225. History of the English Language.—A study of the earlier history of English, and an introduction to Germanic philology. A knowledge of Old English is required.
4 units, spring quarter (Kennedy) By arrangement
spring 3

DIVISION OF PUBLIC SPEAKING

Lee Emerson Bassett, Professor.
James Gordon Emerson, Associate Professor.
Elisabeth Lee Buckingham, Assistant Professor.
Gordon Arthur Davis, Instructor and Director of Dramatics.
Oliver Edward Norton, Instructor.

The Division of Public Speaking offers such courses, together with personal conferences, as may help the student to gain self-control and self-reliance, to realize and use his latent resources and powers, and contribute to his usefulness as a citizen.

The courses in the Division offer instruction in the theory of argumentation and speech-making, and practice in the organization and presentation of speeches and arguments; bring the student in direct and vital contact with the thought and spirit of the best literature through the vocal rendering of it; give practical drill in the use of the voice, in phonetics and diction; provide training in stage technique and dramatics; and prepare candidates to teach the various branches of Public Speaking.

The requirements for the A.B. degree in English-Public Speaking are the satisfactory completion of about thirty units in Public Speaking, and, in addition, the following courses in English: the first part of the course in English Masterpieces (10A), Shakespeare (25), History of English Literature (183, 184) and three courses selected from the following list: 14, 21–3, 27 (or 163), 158–62, 170, 174, 181, 182, 185, 198.

Candidates for the degree are required to have the same reading knowledge of at least one foreign language as English major students.

[NOTE.—*All courses in public speaking are open to but a limited number of students.* Application should be made on registration day, and the instructor reserves the right to refuse to enroll students who do not appear at the first meeting of the class. In general, courses 4 to 6 are open to first-year students; courses 7 to 21*b* to second-year students.]

4. Vocal Expression.—A study of the principles of oral expression and the vocal interpretation of masterpieces in prose and poetry, with supplementary work in voice development. Class recitations and personal conferences. Sections limited to twenty students.

3 units, autumn, *winter, and *spring quarters
autumn, (BASSETT) MWF 9; (NORTON) MWF 9, 11
winter and spring, (BUCKINGHAM) MWF 9, 11; (NORTON) MWF 9, 11
autumn, 57 (3 sections); winter, 63 (4 sections); spring, 66 (3 sections); summer, 52 (2 sections)

5. Reading Aloud.—The oral rendering of various forms of literature. Particular attention will be given to rhythm, time, melody, quality, and other musical elements of verse. Assignments for general class practice and for individual study and rendition. Prerequisite: course 4, or its equivalent. Sections limited to twenty students.

3 units, winter quarter (BUCKINGHAM) MWF 8

6. Practical Phonetics.—A course in the enunciation and pronunciation of the English language. Designed especially for foreign students.

1 unit, spring quarter (BASSETT) T 1:05
spring, 14

7. Extemporaneous Speaking.—Practice in extemporaneous speaking on subjects of current interest, with attention to the preparation of speech outlines. Not open to first-year students. Should preferably be preceded by course 4. Sections limited to twenty students.

3 units, autumn, *winter, and *spring quarters,
autumn (NORTON) MWF 8; (EMERSON) MWF 11;
winter and spring (NORTON) MWF 8; (EMERSON) MWF 10, 11
autumn, 42 (2 sections); winter, 58 (3 sections); spring, 54 (3 sections); summer, 31

8. Public Speaking.—Practice in the preparation and delivery of various types of speeches with particular reference to elements of attention. Prerequisite: Course 7. Limited to twenty students.

3 units, autumn and *winter quarters (BASSETT) MWF 10
autumn, 19; winter, 13; summer, 26

19a. Vocal Interpretation.—The oral interpretation of literature, both prose and poetry. Prerequisites: courses 4 and 5. Limited to twenty students.

3 units, autumn quarter (BASSETT) MWF 11
autumn, 8

19b. Vocal Interpretation: Dramatic Literature.—The study of short plays of literary and dramatic merit for presentation before the class. Parts will be assigned. Attention will be given to characterization and action. Prerequisites: courses 4 and 5. Limited to twenty students.

3 units, spring quarter (BUCKINGHAM) T 1:05–2:05; Th 1:05–3:05
spring, 21

120. Practical Debate.—Under supervision of the department those students who work on intercollegiate debate questions may receive credit upon satisfactory completion of the work.

1 or 2 units, any quarter except summer (EMERSON) By arrangement
autumn, 6; winter, 10; spring, 8

121. Theatrical Workshop.—Practice in the production of plays for public presentation. Particular attention will be given to the construction and designing of stage scenery, and to costuming, lighting, acting, and stage direction. Limited to twenty students.

3 units, autumn and *winter quarters (Davis) T 1:05; Th 1:05–3:05
autumn, 28; winter, 16; summer, 67

122. History of the Theater.—A historical survey of the origin and development of the theater; its social function and significance, and a study of various kinds of theaters.

2 units, winter quarter (Davis) MW 1:05
winter, 43

123. Problems of Stage Presentations.—A study of methods of presentation of certain Greek and Elizabethan plays in their own and successive periods. Limited to 15 students.

2 units, autumn quarter (Davis) MW 1:05
autumn, 14

132. Argumentation.—The theory of argumentation, with practice in the preparation of briefs and in the writing of arguments, together with a critical analysis of argumentative masterpieces. Open to all students who have made a satisfactory grade in English 2.

3 units, autumn quarter (Emerson) MWF 9
autumn, 17; summer, 14

133. Public Speaking (advanced).—A study of models of speech composition and the preparation of original speeches, with special attention to the style of spoken discourse. Prerequisites: courses 7, 8.

3 units, spring quarter (Bassett) MWF 10
spring, 17

149. Voice Training.—Lectures on the voice, with class exercises. Limited to major and minor students in Public Speaking.

1 unit, winter quarter (Bassett) T 1:05
winter, 19

151. Public Reading.—A course in the preparation of poems, stories, and scenes from novels and plays for public presentation. Prerequisites: courses 4, 5, and 19*a*.

2 units, winter and spring quarters (Bassett) T 2:05–4:05
winter, 10; spring, 4

152. Oral Debate.—Practice in the preparation and delivery of oral arguments, chiefly on current public questions. Prerequisite: course 132.

2 units, winter quarter (Emerson, Norton) W 2:05–4:05
autumn, 1; winter, 10

200c. Teachers' Course in Oral Reading.—A study of the principles of expressive speech and training in reading aloud, with assignments adapted to the needs of individual members of the class. The course is given in connection with the Teachers' Course in English Literature and Composition (see p. 215).

2 units, spring quarter (Bassett) Th 1:05–3:05
spring, 5; summer, 15

200d. Teachers' Course in Oral Expression.—A course in problems and methods of teaching the several branches of oral expression in secondary schools.

2 units, winter quarter (Bassett) M 1:05–3:05
winter, 5

DIVISION OF JOURNALISM

Everett Wallace Smith, Associate Professor.
Buford O. Brown, Assistant Professor.

The Journalism curriculum is based on the conviction that the proper college preparation for journalism is a broad course with a preponderance of English, history, economics, and political science. The Lower Division work provides an excellent foundation for such a course, the requirements bringing the student into contact with a wide variety of subjects, and with the electives enabling him to begin to develop his studies in English, history, economics, and political science, which are fundamental to journalism.

The special journalism subjects, with the slight exceptions noted, are offered only to Upper Division students, and the greater part of the time of such students is devoted to non-technical subjects, students of journalism being required to specialize particularly in the work of one of the departments of English, history, economics, or politcal science. To this end, they are expected to make one of these their major department, will be subject to the direction of the major department in conjunction with the instructors in the Division of Journalism, and will meet the usual requirements of the particular department excepting where otherwise stated. They will be classified and their diplomas marked if so desired "English (Economics, History, Political Science) Journalism."

Intending journalists are encouraged to engage in college journalism and thus to obtain practical experience during their course. When done systematically and under the supervision of the Division of Journalism, such work will be given credit toward graduation.

First- and second-year students who are members of the staff of the *Daily Palo Alto* or reporters on other newspapers will be admitted to the class in Practical Reporting for one unit of credit per quarter, provided they attend the special lectures given in connection with that course which deal with principles and practice in newspaper work. First- and second-year students may also be admitted to the course in Editorial Management, provided they meet the requirements.

In some of the journalism courses the written work must be done on the typewriter. On this account, and because ability to use the typewriter is necessary for practically all newspaper work, prospective journalism students are advised to gain this ability as early as possible.

To students making English their major subject in preparation for journalism the department offers a variety of courses in advanced and specialized composition and in English language and literature. Such students will meet the following requirements:

(1) A minimum of 30 units of Journalism, including News Writing (10 units); Copy Reading (5 units); Editorial Writing or Feature Article Writing (5 units); American Journalism (3 units).

(2) A minimum of 30 units of English department courses. At least 25 of these 30 units shall be selected from the following groups of courses, with a minimum of 10 units from group II, and a minimum of 6 units from group III:

GROUP I

9. American Literature	8 units	25. Shakespeare	4 units
22–23. Victorian Literature	6 units	29. Outline History	5 units
24. Bible	3 units		26 units

GROUP II

158. Chaucer	3 units	174. English Essay	3 units
159. Shakespeare	3 units	181. Medieval Literature	4 units
160. Spenser	3 units	182. Literature, 1557–1700	4 units
161. Milton	3 units	183. Literature, 1700–1780	4 units
162. Wordsworth	3 units	184. Literature, 1780–1832	4 units
165. Comparative Literature	3 units	198. English Language	4 units
168. English Fiction	5 units		46 units

GROUP III

154. Short Story	5 units	175. Essayists	3 units
169. Modern Novel	6 units	186. Criticism	3 units
171. Modern Drama	5 units		22 units

(3) A knowledge of a modern foreign language sufficient to insure the rapid translation of current literature in that language.

(4) In history, a minimum of 20 units, including besides Lower Division requirements in American history, either England since 1603 or Europe since 1815.

(5) In economics and political science, a minimum of 20 units, with Course 2 in Political Science (state and local government) strongly recommended.

(6) In addition, such courses as those in advertising, logic, argumentation, general psychology, and advanced composition, according to the particular interests and needs of the individual student.

Courses in Journalism

117a. News Writing.—Study of the structure of the news story and of news value, with practice in writing. Sources of news and methods of news gathering. Newspaper organization and news-gathering organizations. All writing in the course must be done on a typewriter.

5 units, autumn and winter quarters (Brown, Smith) MTWThF 8
autumn, 119; winter, 14

117b. Copy Reading.—A continuation of Course 117*a*. Writing of more difficult news stories. Copy reading, headline writing, and proofreading, with some attention to the mechanical operations of newspaper production.

5 units, spring quarter (Smith) MTWThF 8
spring, 12

140. Editorial Writing.—Study of the function of the editorial, with practice in writing.

5 units, spring quarter (Brown) MTWThF 11
spring, 37

141. The Feature Article.—Study of the feature article for newspapers and magazines, with practice in writing.

5 units, winter quarter (Smith) MTWThF 11
winter, 11

142. Ethics of Journalism.—A consideration of problems of conduct and practice in newspaper editing and publishing.

2 units, spring quarter (Smith) TTh 11
spring, 26

143. American Journalism.—A survey of the development of American newspapers, and a study of the work and influence of outstanding journalists.
3 units, spring quarter (SMITH) MWF 11
spring, 22

144. Practical Reporting.—Practical work in news gathering and writing for the *Daily Palo Alto* and other newspapers, with conferences. Primarily for journalism major students and those intending to become such. Others may be admitted by special permission.
1 or 2 units, autumn, winter, and spring quarters (SMITH) [By arrangement]
autumn, 23; winter, 22; spring, 23

145. Editorial Management.—Practical advanced work on the editorial staffs of campus publications, with conferences.
2 or 3 units, autumn, winter, and spring quarters (SMITH, BROWN) [By arrangement]
autumn, 19; winter, 14; spring, 14

146a. Advertising.—A course in the principles and practice of advertising, primarily for students who are training for journalism, and covering the subject from the standpoint of the newspaper office.
5 units, winter quarter (BROWN) MTWThF 10
winter, 178

146b. Advertising Problems.—A continuation of 146*a*, dealing with special problems in the newspaper advertising field, especially with regard to small city and country newspapers.
3 units, spring quarter (BROWN) MWF 10
spring, 30

147a. Newspaper Management.—The conduct of the small town and country newspaper, with emphasis on the news and editorial side; the problems of the executive who directs editorial and news policies; the relations of news and editorial departments to advertising and circulation, and of news and editorial departments to each other.
5 units, autumn quarter (BROWN) MTWThF 9
autumn, 41

147b. Business Management.—The conduct of the small town and country newspaper on the business side; costs, advertising, circulation and other elements in the maintenance of a newspaper as a profit-making business enterprise. Open to those who have passed 147*a*.
5 units, winter quarter (BROWN) MTWThF 9
winter, 43

148. Law of the Press.—A survey of the bearing and application of various laws that affect the work of writers and publishers of newspapers.
2 units, spring quarter (BROWN) TTh 10
winter, 1; spring, 26

149. Advanced Seminar.
3 units, spring quarter (BROWN)
spring, 2

200e. Teachers' Course.—A course for those preparing to become teachers of journalistic writing in secondary schools and for those preparing to supervise student publications in such schools.
2 units, winter and *spring quarters (SMITH) By arrangement
winter, 1; spring, 2

FOOD RESEARCH INSTITUTE

CARL LUCAS ALSBERG, JOSEPH STANCLIFFE DAVIS, ALONZO ENGLEBERT TAYLOR, Directors.

The Food Research Institute is organized under a grant from the Carnegie Corporation of New York for the purpose of studying the production, distribution, and consumption of food. Most of its investigations are conducted by the directors and the staff of the Institute.

Opportunity for research upon selected food problems will be offered to a limited number of properly qualified students. Such work will count under the usual terms toward the degrees of A.M. and Ph.D.

RESEARCH COURSE

201. Food Research Problems.—Research upon subjects lying within the general field of food production, distribution, and consumption.

Autumn, winter, and spring quarters (ALSBERG, DAVIS, TAYLOR)
By arrangement

GEOLOGY

BAILEY WILLIS, Professor Emeritus.
ELIOT BLACKWELDER, AUSTIN FLINT ROGERS, JAMES PERRIN SMITH, CYRUS FISHER TOLMAN, Professors.
SOLON SHEDD, Curator of the Branner Library.
ALLYN COATS SWINNERTON, Acting Associate Professor (Summer Quarter, 1925).
HUBERT GREGORY SCHENCK, Instructor.
CLARENCE O. SWANSON, Acting Instructor (Winter Quarter).

The Department of Geology offers training in preparation for the profession of geologist and also in part for that of mining engineer. At present the fields of work generally open to graduates of the department are those of mining geologist, petroleum geologist, state and federal geological surveys, university teaching and research.

Students who intend to graduate from the Department of Geology are advised to cover the fundamental courses in mathematics, physics, chemistry, and languages before the junior year. A first course in Geology and Mineralogy may well be included.

The courses offered in the Department of Geology are grouped as follows: (*a*) Geology, (*b*) Mineralogy and Petrography, (*c*) Economic Geology, (*d*) Paleontology and Stratigraphy. The following courses are generally required of all major students: Geology 1 (or 1*a*), 103, 104, 108, 109, 121, 122, 123, 124, 142, 143, 161, and 163; Engineering 1 and 2; Applied Mathematics 1*a* and 1*b*, or their equivalent; Physics 1; Chemistry, through Qualitative Analysis; two years of French or German. In addition, it should be noted that Physics 4 is a prerequisite for Geology 123, and Civil Engineering 20 for Geology 108 and 109.

In general, advanced courses should be selected only after consultation with the instructor concerned.

For the degree of Bachelor of Arts in Geology, sixty units in the department are ordinarily required. The substitution of courses in closely related departments, which are of definite value in Geology, may be accepted by the department committee.

GEOLOGY

1. General Geology.—The earth, its materials, structure, and internal conditions; the processes which are at work upon and within it; and a brief survey of its historical development. Desirable preparation: Elementary Chemistry and Physics.

5 units, spring and *summer quarters (spring, 1925, BLACKWELDER, summer, 1925, SWINNERTON) MTWThF 8
spring, 281; summer, 55

1a. Engineering Geology.—This is Geology 1 modified with special reference to the needs of engineers, but open to others. Prerequisites: Elementary Chemistry and Physics.

5 units, autumn quarter (BLACKWELDER) MTWThF 11
autumn, 56

103. Structural Geology.—The conditions and processes of the earth's interior and their effects upon the material and structure of the earth. Prerequisite: Geology 1.

3 units, winter quarter (BLACKWELDER) MWF 9
winter, 43

104. Physiographic Geology.—The operation of surface processes and the origin of land features. Prerequisite: Geology 1.

3 units, autumn quarter (BLACKWELDER) MWF 9
autumn, 45

105. Regional Geology of North America.—The stratigraphy, structure and history of the geologic provinces of the continent. Prerequisites: Geology 103, 104, and 143.

3 units, spring quarter (BLACKWELDER) [Not given in 1925]

108. Field Geology.—Field work with the Stanford Geological Survey. Summer camps are established in the Coast Ranges. During the first half of the Summer Quarter, the geology of the region reached from the camps is worked out and plotted upon topographic maps and sections. All methods of geological mapping where a topographic map is used as the base are taken up. Geologic mapping, controlled by instrumental surveying, is taken up during the second term in Geology 109. Prerequisites: Geology 103, 122, 123, 142, 143; Civil Engineering 20.

8 units, summer quarter, first half (TOLMAN, ————)
summer, 9

109. Geologic and Topographic Surveying with the Plane Table.—During the second half quarter each student member of the Stanford Geological Survey prepares a detailed topographic and geologic map of an assigned area, controlled by accurate instrumental work.

7 units, summer quarter, second half (TOLMAN)
summer, 8

110. Geologic Problems or Thesis.—Advanced individual work for seniors and graduates.

3 to 5 units, each quarter (BLACKWELDER) By arrangement
autumn, 12; winter, 5; spring, 4

112. Advanced Geology.—For students who are qualified by previous work done in Geology and related subjects. The nature of the work will be arranged to meet the needs of individual students, after conference with the instructor.

3 to 10 units (SWINNERTON, summer, 1925) By arrangement
summer, 3

207. Sedimentation.—The characteristics of sedimentary deposits and their significance with reference to geologic history. Prerequisites: two years of Geology and Mineralogy, including Petrography.

5 units, winter quarter (BLACKWELDER) MTWThF 11
spring, 9

211. Journal Club.—All graduate students, members of the faculty, and such undergraduates as may be chosen by the staff will meet weekly to consider papers on current research, reviews of new publications, etc. Each student will present at least one paper each quarter.

1 unit, autumn, winter, and spring quarters M 4
autumn, 14; winter, 18; spring, 11

215. Research in Physical Geology.

Each quarter (BLACKWELDER) Units and hours by arrangement
autumn, 2; winter 1; spring, 2

216. Field Research in Geology.—Open to a few advanced graduate students, prepared to undertake independent field study.

5 to 15 units, summer quarter (BLACKWELDER) By arrangement

MINERALOGY AND PETROGRAPHY

121. Common Minerals and Rocks.—The study of the more common and important minerals, with a brief treatment of the prominent rock types. An elementary course, with emphasis upon sight determination and simple physical and chemical tests. Open to students who have had Qualitative Analysis. Primarily for Mining and Metallurgy students, but open to a limited number of other students in order of application.

4 units, autumn and spring quarters (ROGERS) Lec. WF 11; Lab. ThF 1:05–4:05
autumn, 13; spring, 8

122. Mineralogy.—An elementary study of geometrical crystallography. The systematic study and determination of the more important non-silicate minerals. Introductory to advanced courses in mineralogy and petrography. Open to students who have had Qualitative Analysis. Engineering 3 (Descriptive Geometry) is recommended.

4 units, autumn quarter (ROGERS) Lec. TTh 11; Lab. MT 1:05–4:05
autumn, 24

123. Mineralogy.—An elementary study of the optical properties of crystals, with emphasis upon the polarizing microscope as an instrument of research. Systematic study of the important silicate minerals and their determination by all available methods. Prerequisites: Geology 122, and Physics 4.

4 units, winter quarter (ROGERS) Lec. TTh 11; Lab. TTh 1:05–4:05
winter, 24

124. Petrography.—Study of hand specimens and thin sections of the principal rock types and mineral deposits. In courses 122 and 123 the properties or characters of minerals are considered, while course 124 is primarily concerned with the relations between associated minerals with

special reference to their occurrence and origin. Geology 122 and 123 are prerequisites.
5 units, spring quarter (Rogers)
Lec. WF 11; Lab. ThF and one period by arrangement, 1:05–4:05
spring, 23

225. Advanced Mineralogy.—Advanced work in crystallography, mineralogy, or petrography may be undertaken by properly prepared students.
2 to 5 units, autumn, winter, and spring quarters (Rogers) By appointment
winter, 4; spring, 1

PALEONTOLOGY AND STRATIGRAPHY

141. Systematic Paleontology.—History and character of fossils. Three lectures and six hours of laboratory work weekly.
4 units, autumn quarter (Smith) MWF 10
autumn, 17

142. Historical Geology.—History and character of geologic formations. Three lectures and six hours of laboratory work weekly.
4 units, winter quarter (Smith) MWF 10
winter, 42

143. Historical Geology.—Continuation of course 142.
4 units, spring quarter (Smith) MWF 10
spring, 41

144. Systematic Conchology.—Special studies in Tertiary and Recent Conchology of the West Coast. One lecture and two afternoons of laboratory work weekly.
2 units, autumn quarter (Smith) TTh 1:05-4:05
autumn, 11

145. Tertiary Conchology of California.
2 units, winter quarter (Smith) TTh 1:05–4:05
winter, 5

146. Paleobotany of California.
2 units, spring quarter (Smith) TTh 1:05–4:05
spring, 2

147. General Geology of California.
2 units, autumn quarter (Smith) TTh 10
autumn, 30

148. Detailed Stratigraphy of California.
2 units, winter quarter (Smith) TTh 10
winter, 7

149. Stratigraphic History of the Great Basin.
2 units, spring quarter (Smith) TTh 10
spring, 10

250. Advanced Paleontology.—Original investigation of various problems in paleontology, especially of invertebrate morphology, and of the distribution of faunas. This course will consist entirely of private work in field and laboratory. Open to advanced students and graduates.
2 to 5 units, all quarters (Smith, Schenck) By arrangement
autumn, 10; winter, 4; spring, 12; summer, 2

ECONOMIC GEOLOGY

161. Non-metals.—The occurrence, distribution, origin, and geologic methods of investigation of the non-metallic substances. Prerequisites: Geology 1, 121, 142, and 143.
4 units, winter quarter (Tolman) MTWTh 8
winter, 36

162. Geology of Oil and Coal.—Elementary course dealing with the origin and accumulation of coal and oil. Review of the important coal fields and oil districts of the world. Course 103 in the Mining and Metallurgy Department may be substituted for this course if desired. Prerequisite: Geology 161.

4 units, spring quarter (TOLMAN) (Given in alternate years) MTWTh 9
[Not given in 1924–25]

163. Ores.—The ore-forming processes, modes of occurrence of the various types of ore bodies, and the structures of the ores. A review of the important ore deposits of the United States and of the world. Open to students who have completed Geology 1, 121, 142, and are taking or have completed 143.

4 units, spring quarter (TOLMAN) MTWTh 8
spring, 31

265. Seminar in the Origin and Accumulation of Oil.—(Same as Mining and Metallurgy 250.) A critical study of the literature with reference to the origin and accumulation of oil. Students admitted only after personal consultation with the instructor.

4 units, spring quarter (TOLMAN) (Given in alternate years) TTh 9–11
[Not given in 1924–25]

266. Seminar in Ore Deposits.—This includes: (1) methods of preparing polished surfaces; (2) all microscopic and chemical methods of determination of minerals in polished surfaces; (3) a review of the literature of ore deposits, especially certain important publications of the U. S. Geological Survey, and the checking of the results appearing in this literature by a study of suites of specimens from the mines. Prerequisite: Geology 124. For seniors and graduate students. (Three lecture and conference periods and three [or more] laboratory periods.)

6 or more units, winter quarter (TOLMAN) TTh 9–11
winter, 6

267. Special Courses.—These include: (*a*) a study of the literature of some special phase of economic geology, with a thesis; (*b*) field investigations of some mine or mineral district, or the general economic geology of an assigned area; (*c*) microscopic studies of ores collected during field studies, or microscopic investigation of suites of specimens owned by the University. (For graduate students; in exceptional cases seniors will be admitted.)

Winter and spring quarters (TOLMAN) By arrangement
winter, 4; spring, 6

268. Fault Problems.

2 units, spring quarter (TOLMAN)
spring, 5

GERMANIC LANGUAGES

WILLIAM ALPHA COOPER, KARL GUSTAV RENDTORFF, Professors.
BRUNO BOEZINGER, Associate Professor.
AUGUST CARL MAHR, HELENA MAY NYE, Instructors.
CLARA EBERHARD, WALTER GIESEKE, Assistants in Instruction.

The elementary and intermediate courses listed below are designed to prepare students to read German without translation, and to express

ideas in simple German prose. Those who have completed courses 101, 102, and 103 may take any more advanced course for which, in the judgment of the instructor in charge, they are prepared. Courses 176, 188, 191, 192, 193, 200*a*, and 200*c* are given entirely in English; the other advanced courses presuppose considerable facility in reading German, and some of them are conducted in German. Courses not assigned to any particular quarter, and with "by arrangement" instead of definite hours in the time schedule, will be given whenever there is sufficient demand for them.

Candidates for the A.B. degree in Germanic Languages are expected to take thirty units beyond second-year German, *i. e.*, from courses numbered 101, 102, 103, 111, and higher.

Candidates for the Teacher's Recommendation in German as a major subject are expected to take second-year German (fifteen units) and the following: fifteen units elected from courses 101–104, 111, and 151; two units from courses 161, 162, 163, and 231; fifteen units from courses 174–178, 182–187, 200, 224; and two units from courses 191–193. Proficiency in German will be insisted upon.

Candidates for the Teacher's Recommendation in German as a minor subject are expected to take, in addition to second-year German (fifteen units), fifteen units elected from courses 101–104, 111, 151, 161, 162, 163, 174–178, and 182–187. Proficiency in German will be insisted upon.

Candidates for the A.M. degree in Germanic Languages are expected to take fifteen units, including course 251, in addition to the requirements for the A.B. degree. A general examination is given.

Candidates for the Ph.D. degree are referred to the bulletin on Graduate Study.

The library facilities are good, and the collections are being strengthened in all directions. The private library of the late Professor Hildebrand, of the University of Leipzig, furnishes valuable material, particularly in the older literature and in lexicography. In modern literature the library offers good opportunities for advanced work, the Goethe collection being especially satisfactory. The files and the current numbers of the most important journals are at hand.

The department maintains, in room 112, a special library of its own, including a collection of German textbooks and a model reference library for a secondary-school teacher. This collection of books is supplemented by an extensive collection of maps, wall pictures, and lantern slides, suited for use in teaching.

For courses 1, 2, and 3, First-year German, a special university fee of $7.50 per quarter is charged.

1. First-year German.—It is the object of this course to put the learner in possession of the elements of the German language. This implies: (1) a personal command of simple German, that is, the ability to understand such German, whether heard or read, and to employ the language in simple conversation, narration, and description, both orally and in writing; (2) such a ready familiarity with the elements of German grammar as is essential for the attainment of this command of the language.

5 units, autumn and * winter quarters (Eberhard, Mahr, Nye)
(autumn) MTWThF 8, 9, 11; (winter) MTWThF 11
autumn, 149; winter, 27

2. First-year German.—A continuation of course 1.
5 units, winter and *spring quarters (EBERHARD, MAHR, NYE) (winter) MTWThF 8, 9, 11; (spring) MTWThF 11
winter, 119; spring, 23

3. First-year German.—Besides being a continuation of course 2, this course affords, in the Autumn Quarter, an opportunity for students with more than one and less than two years of high-school German to prepare themselves to take up second-year college German (course 21) in the Winter Quarter.
5 units, spring and *autumn quarters (EBERHARD, MAHR, NYE) MTWThF 8, 9, 11
spring, 110

[NOTE.—Courses 1, 2, and 3, together, are equivalent to two years of German in the high school, and may be taken by students who have presented no units of credit in German for entrance into the University. Those who present one unit for entrance may take courses 2 and 3.]

11. Special Elementary Course.—The aim of this course is to prepare candidates for the Ph.D. degree in other departments to read the literature in German in their particular fields. A rapid review of the elements of German grammar is followed by intensive practice in reading and translation. Course 1 should precede this course. Permission of the instructor necessary before registration.
2 units, winter and spring quarters (COOPER) By arrangement
winter, 5; spring, 10; summer, 1

15. German Pronunciation.—Practice in reading aloud and declaiming. Prerequisites: courses 1 and 2.
1 unit, spring quarter (BOEZINGER) By arrangement
spring, 11

20a. Free Reading, Literary.—Open to students who have had a year or more of German. Permission of the instructor necessary before registration. Thirty-six hours of reading per unit, and weekly conferences with the instructor.
1 or 2 units, each quarter (EBERHARD, GIESEKE, NYE) By arrangement
autumn, 35; winter, 30; spring, 25; summer, 11

20b. Free Reading, Science.—Requirements the same as for 20*a*.
1 to 3 units, each quarter (BOEZINGER, GIESEKE) By arrangement
autumn, 5; winter, 13; spring, 3; summer, 6

21. Second-year German.—The aim of this course is to extend and strengthen the student's personal command of German, both oral and written. The course is taken to best advantage as a whole, but may be taken in part, either the division 21*a*, which is devoted to the reading and discussion in German of texts selected from the writings of contemporary or late nineteenth century authors, or the division 21*b*, which affords training in composition, conversation, and practical grammar.

21a. Second-year Reading.
3 units, autumn quarter (BOEZINGER, MAHR, NYE) MWF 9, 10, 11
autumn, 42

21b. Second-year Composition.
2 units, autumn quarter (BOEZINGER) TTh 9
autumn, 12

22. Second-year German.—A continuation of course 21.

22a. Second-year Reading.
3 units, winter quarter (BOEZINGER, MAHR, NYE) MWF 9, 10, 11
winter, 31

22b. Second-year Composition.
2 units, winter quarter (BOEZINGER) TTh 9
winter, 10

23. Second-year German.—A continuation of course 22.

23a. Second-year Reading.
3 units, spring quarter (BOEZINGER, MAHR, NYE) MWF 9, 10, 11
spring, 26

23b. Second-year Composition.
2 units, spring quarter (BOEZINGER) TTh 9
spring, 6

[NOTE.—Second-year German (which includes courses 21, 22, and 23) is the equivalent of the third and fourth years of German in the high school. Students who present three units in German for entrance may take courses 22 and 23, or 23 and 24.]

24. Second-year German.

24a. Second-year Reading.
3 units, summer quarter (GIESEKE) MWF 8
summer, 5

24b. Second-year Composition.
2 units, summer quarter (GIESEKE) TTh 8
summer, 5

25. Science German.
3 units, autumn quarter (BOEZINGER) MWF 9
autumn, 29

26. Science German.—A continuation of course 25.
3 units, winter quarter (BOEZINGER) MWF 9
winter, 19

27. Science German.—A continuation of course 26.
3 units, spring quarter (BOEZINGER) MWF 9
spring, 13

[NOTE.—Courses 25, 26, and 27 form one continuous course, but credit may be obtained for the work of any quarter separately. Prerequisites: Courses 1, 2, and 3, or two entrance units in German. Not open to freshman students.]

28. Science German.
2 or 3 units, summer quarter (MAHR) TTh 9
summer, 6

100. Directed Reading in Science German.—Prerequisite: Second-year German or Science German, three quarters. Thirty-six hours of reading per unit, and weekly reports to the instructor.
1 to 3 units, each quarter (BOEZINGER, MAHR) By arrangement
autumn, 13; winter, 8; spring, 7; summer, 5

101. Novels.—A course in rapid reading of modern novels, with discussions in German of their subject matter and technique.
3 units, autumn quarter (COOPER) MWF 11
autumn, 4

102. Classical Dramas.—A continuation of course 101, the works read being, for the most part, dramas of the Classical period.
3 units, winter quarter (COOPER) MWF 11
winter, 6

103. Recent Dramas.—A continuation of course 101, the works read being, for the most part, dramas of the last fifty years.
3 units, spring quarter (COOPER) MWF 11
spring, 7

104. Dramas and Novels.—A continuation of course 101.
3 units, summer quarter (MAHR) MWF 9
summer, 2

111. Advanced Composition.—By composition is meant, not translation from English, but the employment in connected prose of German material either gathered from reading or specially assigned by the instructor.
1 or 2 units, each quarter (Boezinger, Mahr) By arrangement
autumn, 1; winter, 2; spring, 1

120. German Landscapes.—Lectures in German, with stereopticon. This course may be taken for credit more than one quarter.
1 unit, each quarter (Mahr) (autumn, winter, spring), TTh 10
(summer) TTh 11
autumn, 15; winter, 18; spring, 26; summer, 10

150. Directed Reading.—Prerequisites: Second-year German for three quarters, and, if possible, one or more of the courses 101 to 104. Individual courses of reading, suited to special needs and desires. Thirty-six hours of reading per unit, and brief interviews, once a week, with the instructor.
1 or 2 units, each quarter (Cooper, Rendtorff) By arrangement
autumn, 11; winter, 7; spring, 11; summer, 7

151. Individual Composition.—The aim of this course is to develop correct, idiomatic and adequate expression.
1 unit, each quarter (Mahr, Rendtorff) By arrangement
autumn, 1; winter, 3; spring, 2; summer, 2

152. Individual Work.—Training in other lines than directed reading, to meet special needs.
1 or 2 units, each quarter (Cooper, Mahr, Rendtorff) By arrangement
winter, 1; spring, 3; summer, 6

161. German Etymology.
2 units, winter quarter (Cooper) TTh 11
winter, 4

162. German Syntax.
2 units, autumn quarter (Cooper) TTh 11
autumn, 3

163. Word Studies.—Study of selected words in their relation to cultural history.
2 units, summer quarter (Mahr)
summer, 2

171. German Lyrics.
2 units, spring quarter (Mahr)

174. Goethe's Lyrics.—A study of Goethe's lyrics in relation to his life and to his conception of the poet's calling.
3 units (Cooper)

175. Goethe's Faust.—Course conducted in German.
3 units, autumn quarter; 2 units, winter quarter (Cooper)
(autumn) MWF 8; (winter) TTh 8
autumn, 5; winter, 5

176. Goethe's Faust in English Translation.—An all-English course.
3 units, spring quarter (Cooper) MWF 8
spring, 8

177. Schiller's Works.
2 units, winter quarter (Rendtorff) TTh 10
winter, 2

178. Heine and the Young German Movement.
2 units, summer quarter (Rendtorff) TTh 10
summer, 3

182. History of the Nineteenth Century Literature.
3 units, spring quarter (Rendtorff) MWF 10
spring, 8

185. Current Literary Movements.
3 units, summer quarter (RENDTORFF) MWF 10
summer, 3

186. The Development of the Drama.
3 units (RENDTORFF)

187. The Development of the Novel.
3 units (COOPER)

188. General Survey of German Literature.—Lectures in English, readings from English translations.
2 units, winter quarter (RENDTORFF) MW 10
winter, 5

[**191. History of Germany.**—See History 157.]
3 units, winter quarter (RENDTORFF) MWF 8
winter, 18

192. History of German Civilization.—Lectures, with stereopticon.
2 units, spring quarter (RENDTORFF) MW 2:05–4:05
spring, 7

193. Art and Literature.—The relation between formative art and literature in Germany. Lectures, with stereopticon.
2 units, summer quarter (RENDTORFF) MW 2:05–4:05
summer, 1

200a. Modern Language Teaching.—Lectures on the various methods of teaching modern foreign languages, and the psychology involved.
1 unit (COOPER) By arrangement

200b. German Teacher's Course.—Instruction and practice in progressive methods; examination of textbooks and illustrative material.
1 unit, spring quarter (COOPER) M 9
spring, 3

200c. The Teaching of Literature.
1 unit (RENDTORFF) By arrangement

200d. Practice in Teaching of Elementary German.—This course should be registered for under the proper number in the Department of Education.
3 units, autumn, winter, and spring quarters (COOPER) By arrangement
winter, 1

221. Gothic.
2 units (BOEZINGER) By arrangement

223. Old High German.
2 units By arrangement

224. Middle High German.—Grammar and selected texts.
2 units, winter and spring quarters (RENDTORFF) By arrangement
winter, 2; spring, 2

231. Comparative Grammar of German and English.
3 units By arrangement

241. Seminary.
3 units By arrangement

251. Master's Thesis.—The candidate reports weekly to the instructor in charge for criticism, the work extending over three quarters, as a rule.
1 to 3 units, each quarter (COOPER, RENDTORFF) By arrangement
spring, 1

252. Department Research Club.—Coöperative investigation of linguistic and literary problems by members of the department faculty. Advanced graduate students may be invited to the meetings.
autumn, winter, and spring quarters By arrangement

HEBREW

1. Elementary Hebrew.—Introduction to Hebrew Grammar, word-lists, verbs and nouns from strong roots, reading and analysis of the first four chapters of Genesis.

2 units, spring quarter (Powell) MW 2:05
spring, 13

HISTORY

Payson Jackson Treat, Ephraim Douglass Adams, Frank Alfred Golder, Percy Alvin Martin, Edgar Eugene Robinson, Professors.

Edward Maslin Hulme, Yamato Ichihashi, Ralph Haswell Lutz, Associate Professors.

Carl Fremont Brand, Assistant Professor.

Edward Latimer Beach, Harold Henry Fisher, William Henry Cooke (Summer Quarter), Lecturers.

Carl Russell Fish (University of Wisconsin), Acting Professor (Summer Quarter).

The Department of History provides a liberal course for the A.B. degree, offers opportunity for graduate study leading to higher degrees, in certain selected fields in which the University is especially well equipped, trains teachers of History, and renders a general service to the other departments of the University.

In addition to its more specialized work, the department offers a number of courses grouped as (I) Introductory and (II) Advanced Lecture Courses intended to meet the general needs of the University constituency. The underlying principle of these courses is that they shall be useful, not in the utilitarian sense, but in the sense that they aid in equipping the student for his duties as a citizen and in giving him instruction that may be helpful in such work as Law, Journalism, Library Research, State and National Public Service, and in business where a knowledge of domestic and foreign affairs is desirable.

For History majors the curriculum for the degree of A.B. is designed to familiarize the student with the fundamentals and methods of the chief branches of knowledge, and with the methods of historical science. With this object in view, a general system of advice and requirement has been outlined, but it may be varied to suit the circumstances of the truly exceptional student. Under the four-quarter system 180 units are required for graduation. The general system of the History Department prescribes 45 units of History, of which 3 are required in an Introductory Seminar, and 6 in one or two Seminar Courses. In addition to the requirements of the Lower Division the department requires eight units in Economics or Political Science, and a reading knowledge of at least one foreign language by the end of the Junior year.

Advanced Degrees.—Graduate students, candidates for advanced degrees, are desired and will be given personal guidance, but the purposeless graduate student will not be accepted by the department. For the oppor-

tunities of graduate study in History see University Bulletin on Graduate Study.

Graduate students seeking to fulfill the requirements of the State Board of Education for the TEACHER'S CERTIFICATE will be given the necessary aid and opportunities, but will register as majors in the School of Education. (See University Bulletin of School of Education.)

THE TEACHER'S RECOMMENDATION IN HISTORY.—Applicants for the departmental recommendation, as a major, must have completed in a manner acceptable to the department at least 42 units of History, as follows: (1) Seminar Courses aggregating at least 6 units; (2) Introductory Seminar Course, 3 units; (3) the Teacher's Course in History (History 200), 3 units; (4) 30 units in the group of courses selected from the following fields: Medieval and Modern History (courses 10–14 inclusive); English History (courses 16 and 17); Far Eastern History (courses 27–32 inclusive); American History (courses 21–24 inclusive); Latin-American History (courses 36 and 37). History majors may substitute for any two of the Introductory Courses 10 units of Ancient History as offered by the Department of Classical Literature.

As prerequisite to the departmental recommendation in History for the high school teacher's certificate as a minor the student must have completed at least 27 units in either European or American History, as follows:

1. For the minor in European History: (*a*) 15 units in the group of Introductory Courses selected from the fields of European History, English History, and Far Eastern History; (*b*) 3 units in an Introductory Seminar Course; (*c*) 6 units in a Seminar Course; (*d*) the Teacher's Course in History, 3 units.

2. For the minor in American History: (*a*) 15 units in the group of Introductory Courses selected from the fields of American History and Latin-American History; (*b*) 3 units in an Introductory Seminar Course; (*c*) 6 units in a Seminar Course; (*d*) the Teacher's Course in History, 3 units.

Any student who has secured the minor recommendation of the department in either European or American History may thereafter earn the major recommendation by completing the 15 units of the Introductory Courses in the opposite group.

Students taking History as a major with the intention of preparing for Journalism are referred to the heading Journalism on page 219.

I. INTRODUCTORY COURSES

[**Greek History.**—See under Classical Literature, courses C1, 2, 3, 4.]

[**Roman History.**—See under Classical Literature, course C5.]

10. European History, 395–1300.—A general course dealing with the development of medieval life and institutions, with special attention to feudal conditions, and also to the church as the controlling force influencing every element of the life of the time. Open to all students.

3 units, autumn quarter (HULME) MWF 9

11. European History, 1300–1600.—A continuation of History 10, with special emphasis upon the Renaissance and the Reformation. Open to all students.

3 units, winter quarter (HULME) MWF 9

autumn, 346; winter, 293

12. Europe Since 1600.—A survey of the political, economic, and social development of the European nationalities, with special emphasis upon the period of absolutism, industrial revolution, French revolution, growth of democracy and nationalism, and the World War. Open to all students.
3 units, spring and *summer quarters (Lutz) MWF 9
spring, 326; summer, 70

13. The History of Modern France.—A general survey course of institutional, social, and political development from the foundation of Bourbon absolutism to the close of the World War. Open to all except freshman students.
2 units, winter quarter (Lutz) TTh 11
winter, 93

14. History of Russia.—A general survey of the beginnings and earlier period of Russian history. Open to all except freshman students.
5 units, spring and *summer quarters (Golder) MTWThF 8
spring, 29; summer, 25

16. English History to 1603.—A general outline course on the making of the English state and nation to the death of Elizabeth, with emphasis upon events and institutions especially significant for the later history of the English-speaking peoples. Open to all students, though especially intended for those in the Lower Division.
5 units, autumn quarter (Brand) MTWThF 11
autumn, 145

17. England Since 1603, and British Overseas Expansion.—A continuation of History 16.
4 units, winter quarter (Brand) MTWF 11
winter, 172

21. American History, 1607–1789.—A survey of the English colonization of the Atlantic Seaboard and of the westward movement of colonists of the British Empire, followed by a consideration of the Revolution and of the formation of the American government. Open to all students.
3 units, autumn quarter (Robinson) MWF 8
autumn, 202

22. American History, 1789–1848.—Presidential administrations from Washington to Polk; the War of 1812; industrial changes and expansion; abolition; political changes; territorial expansion. Open to all students.
3 units, winter quarter (Adams) MWF 10
winter, 169

23. American History, 1848–1920.—Slavery issues; the Civil War; reconstruction; industrial changes; new political parties and theories; the United States and world politics. Open to all students.
3 units, spring quarter (Robinson) summer quarter (Fish) MWF 10
spring, 166; summer, 63

24. The Westward Movement.—A survey of the expansion of the American people into the Mississippi Valley, and the American occupation of the Pacific Northwest and of California. Open to all except freshman students.
4 units (Robinson) [Not given in 1924–25]

27. The Far East.—An account of the relations between Western nations and the peoples of Eastern Asia. Emphasis is placed upon international relations, especially since the middle of the 19th century, rather than upon the domestic history of the Eastern nations. The work of the Portuguese,

Dutch, and British is studied and special attention is given to the rise of the British Empire in India. Open to all except freshman students.
5 units (Treat) [Not given in 1924–25]

28. The Far East.—The relations of the West with China, Indo-China, Japan, and the Philippines. Open to all except freshman students.
5 units, winter quarter (Treat) MTWThF 9
winter, 118

31. History of Japan.—A general survey of the political, social and economic development from the foundation of the empire to the present time. Open to all except freshman students.
5 units, spring quarter (Ichihashi) MTWThF 9
spring, 80

36. History of Spanish America.—An outline course, dealing chiefly with the Spanish Colonial System and the Spanish-American Wars of Independence. Open to all except freshman students.
5 units, autumn quarter (Martin) MTWThF 9
autumn, 121

37. History of South America Since 1823.—A continuation of History 36. An outline course dealing with the history and institutions of the leading nations of South America; includes the discussion of such topics as the Monroe Doctrine, Pan-Americanism, and the relations between the United States and Latin America.
5 units, winter quarter (Martin) MTWThF 9
winter, 149

40. The Great War.—A survey of the causes, campaigns, and results of the war of 1914. Open to all students.
3 units, spring quarter (Fisher) MWF 11
spring, 143

II. Advanced Lecture Courses

[The courses in this group are intended for students of at least junior standing, but sophomores may be admitted at the discretion of the instructor.]

[History of Roman Civilization.—See under Classical Literature, course C6.]

138. European Thought and Culture.—The history of various movements of thought and ideals of culture and conduct that have been influential in the life of Western Europe.
2 units, spring quarter (Hulme) TTh 10
spring, 131

139. The End of the Middle Ages.—A study of the phenomena, such as the rise of towns, of new nations, and of new thought, that, in the twelfth and thirteenth centuries, prepared the way for the Renaissance.
3 units, autumn quarter (Hulme) MWF 10
autumn, 68

140. The Italian Renaissance.—The development of the new humanism in its relations to the political, social, and religious life of the time. The lectures will deal with the sources as well as the evolution of the new and broadening thought of this critical and formulative period; with the revival of nationality and individuality, of literature, of art, of science, and of conscience, with the changing economic and social conditions; and with the development of political theory and the transformation of law.
3 units, spring quarter (Hulme) MWF 10
spring, 64

141. The Reformation.—A study of the causes of the ecclesiastical revolt in the sixteenth century, of the progress of the movement in its various phases, of its more immediate results, and of its bearing upon the life and thought of our own day.
3 units (HULME) [Not given in 1924–25]

142. The French Revolution and the Napoleonic Era.—A study of the conditions in France before 1789, the Revolution from 1789 to 1799, the organization of France under Napoleon, the character of the Napoleonic empire, the reorganization of Europe, 1814–1815, and the attempt to create a European Federation.
3 units, winter quarter (LUTZ) MWF 10
winter, 16

143. Europe Since 1815.—A course of lectures on the conflict of Reaction and Liberalism, the Industrial Revolution, the emergence of class consciousness, nationalism and imperialism, the Great War and the terms of peace.
3 units, autumn quarter (LUTZ) MWF 10
autumn, 54

144. The Mobilization and Control of National Resources During the World War.—Government regulation of production, distribution and consumption; the agencies employed and methods used in Europe and the United States.
3 units, autumn quarter (FISHER) MWF 9
autumn, 17

145. Reconstruction and Readjustment.—Effects of the mobilization and use of national resources in the war. Economic and social demoralization of Central and Eastern Europe; the problems of reconstruction and relief.
3 units, winter quarter (FISHER) MWF 9
winter, 3

146. Propaganda and Censorship.—The methods and materials of war and post-war propaganda; censorship; the effects of propaganda and censorship on political and social thought during and since the war.
3 units (FISHER) [Not given in 1924–25]

152. The Russian Revolution.—A political and social study of Russia during the war and the revolution.
3 units (GOLDER) [Not given in 1924–25]

153. The New Europe.—A study of the European situation since the Peace Conference.
3 units (GOLDER) [Not given in 1924–25]
winter, 15

154. Central Europe and the Balkans.—A survey of domestic and international developments from 1815 to 1920.
3 units, winter quarter (GOLDER) MWF 11

155. The Peace Negotiations.—A study of the war aims and peace negotiations, 1915–1920.
3 units, winter quarter (GOLDER) [Not given in 1924–25]

156. History of Canada.—A survey of the evolution of the Dominion of Canada. Preliminary consideration of the periods of discovery, of early trade and settlement by French and British, and of the contest between France and Britain for empire, followed by a survey of the further development of the several colonies, their achievement of responsible government, their consolidation and expansion into a continent-wide federal

dominion and growth to autonomous nationhood as a member of the British Empire Commonwealth. Emphasis also upon the significance in Canadian History of Canada's nearness to and relations with the United States.

4 units, spring quarter (BRAND) MTWF 9
spring, 23

157. History of Germany.—A general survey, with particular emphasis on the period since 1848.

3 units, winter quarter (RENDTORFF) MTWF 9

158. British Constitutional History.—An attempt to explain the development, the underlying principles, and the operation of the British constitution. It is also the aim of the course to give a background for American constitutional history. Lectures and reading. Concerning introductory seminar work in this subject see History 180.

4 units, winter quarter (BRAND) MTWTh 10

162. History of the West.—A consideration of the political phases of the expansion of the American people; an examination of new issues and new groups that have risen in the West and their influence upon national party history.

2 units, spring quarter (ROBINSON) TTh 9
spring, 16

164. British-American Diplomatic Relations.—Lectures and reading on those incidents or conditions in foreign policy where the United States has come into conflict or contact with the foreign policy of Great Britain and her colonies; with a survey of the general purpose of British and of American foreign policy throughout the hundred-year period.

3 units, summer quarter (ADAMS) MWF 11
summer, 45

165. Representative Americans.

2 units, summer quarter (FISH) MWF 11
summer, 84

166. History of Australasia.—An account of British colonization in Australia and New Zealand to the present time. Open to third-year students who have a satisfactory knowledge of English history.

3 units, spring quarter (TREAT) MWF 9
spring, 21

167. Tropical Colonization in the Far East.—A study of the present methods of the English, Dutch, French, and American governments in their tropical dependencies in the Far East. Open to students who have taken course 27.

3 units, spring quarter (TREAT) [Not given in 1924–25]

168. Japanese Foreign Relations Since 1894.—A critical examination of Japanese foreign relations beginning with the Chinese-Japanese War in 1894–95. Special attention will be given to her imperialism and to her position in world politics.

4 units, autumn quarter (ICHIHASHI) MTWF 8
autumn, 34

169. History of Japanese Civilization.—A survey of, and an attempt to interpret, the history of Japanese civilization. Special attention will be given to the religions, philosophy, literature and arts, fine and industrial.

4 units, winter quarter (ICHIHASHI) MTWF 8
winter, 22

170. History of Mexico and California.—A somewhat detailed study of the history of Mexico up to the present time, and of the history of California to 1848.
3 units, spring quarter (MARTIN) MWF 11
spring, 76

172. American Naval History.—A lecture course presenting an account of the development of the American navy, its activities, and its historical influence.
3 units, winter quarter (BEACH) MWF 11
winter, 83

174. American Military History.—A lecture course outlining the organization, development, and activities of the United States Army.
3 units, autumn quarter (BEACH) MWF 11
autumn, 88

175. The American Constitution and American Ideals.—A special course for those wishing to fulfill the requirement for the Teachers' Certificate. Open to others by permission.
3 units, summer quarter (ADAMS) TTh 10
summer, 46

176. Historiography.—A course designed to familiarize the student with the writings and influence of the great historians from Herodotus to the present time. The work will consist of lectures, papers and class discussions. Open to graduate students and to others at the discretion of the instructor.
3 units, spring quarter (MARTIN) W 2–4
spring, 10

[**Law 215. International Law.**—A course given by the Law Department, strongly advised for History majors interested in world politics and relations. It will be accepted for credit in fulfilling the History requirements for the A.B. degree. Open, at the discretion of the instructor, to majors of other than the Law Department in their third or fourth year.
4 units, winter quarter (BINGHAM)]

[**Law 225. Constitutional Law I.**—Accepted for credit in fulfilling the History requirements for the A.B. degree.
3 units, autumn quarter (CATHCART)]

[**Law 226. Constitutional Law II.**—Accepted for credit in fulfilling the History requirements for the A.B. degree.
3 units, winter quarter (CATHCART)]

III. INTRODUCTORY SEMINAR COURSES

[The courses in this group are intended primarily for History majors in their junior year as preparation for senior seminars, or graduate work. If a course is not filled by History majors, others may be admitted at the discretion of the instructor.]

177. Historical Method.—A course preparatory to historical research and to the teaching of history. It will discuss what history is, what it is for, what are its materials, what are its methods, what are its relations to neighbor studies, how to read history, how to study it, and how to write it. It will also provide for introductory studies of some of the sciences that are auxiliary to history.
3 units, autumn quarter (HULME) TTh 10
autumn, 47

178. Nineteenth Century European Problems.—Papers and class discussions on important domestic and foreign problems of European nations.
3 units, summer quarter (Golder) MWF 9
summer, 7

180. Selected Topics in British Constitutional History.—Specialized study of selected topics dealt with in more summary fashion in History 158, to which this course is supplementary. Open to any History majors taking History 158, but to other students only at the discretion of the instructor.
2 units, winter quarter (Brand) F 10
winter, 4

184. The World War.—A general survey of the period of the war and the armistice, with assignment of special topics for study from materials in the Hoover War Library.
3 units, winter quarter (Lutz) T 2–4
winter, 19 (2 groups)

186. Relations Between California and the Federal Government.—An examination of materials revealing the problems of California and their relation to national development.
3 units, spring quarter (Robinson) M 3–5
spring, 9

190. Selected Topics in Far Eastern History.—Designed to introduce the student to materials in western languages useful in the study of the modern History of the Far East. Open to those who have had History 28.
3 units, spring quarter (Treat) MWF 11
spring, 12

196. History of Brazil.—A somewhat detailed study of the History of Brazil, with special emphasis on the period since 1822. The course will include a comparison of Brazilian political institutions with those of Spanish America and the United States. Open to those who have had History 37 and to others with permission of the instructor.
3 units, autumn quarter (Martin) MWF 11
autumn, 8

197. Government of Japan.—A critical study, with materials in western languages, of the present governmental system of Japan in order to understand the underlying factors in the struggle between bureaucracy and democracy. Papers, reports and discussion in class.
3 units, autumn quarter (Ichihashi) Th 2–4
autumn, 10

IV. Seminar Courses

[For History majors primarily, of senior or graduate standing.]

200. The Teaching of History.—A course intended for those students who expect to teach history in intermediate or secondary schools. Its purpose is to make the student acquainted with the aims, the methods, the apparatus, and the literature of the work of teaching history. May not be offered as a seminar course to fulfill departmental requirements.
3 units, winter quarter (Hulme) *summer (Cooke) MWF 11
winter, 35; summer, 13

205. Seminar in Medieval History.
3 units, winter and spring quarters (Hulme) Th 2–4
winter, 12; spring, 9

207. Seminar in Modern European History.
3 units, autumn, spring, and summer quarters (Lutz) T 2–4
autumn, 16; spring, 11; summer, 11

210. Seminar in the History of England and the British Empire.
3 units, autumn and spring quarters (BRAND) Th 2–4
autumn, 11; spring, 1

213. Seminar in the History of the West.
3 units, autumn and winter quarters (ROBINSON) M 2–4
autumn, 10; winter, 12

219. Seminar in American Diplomatic History.
3 units, winter, spring, and summer quarters (ADAMS) W 2–4
winter, 12; spring, 12; summer, 11

225. Seminar in the History of the Far East.
3 units, winter and spring quarters (TREAT) T 2–4
winter, 11; spring, 8

226. Seminar in Russian History.
3 units, winter and spring quarters (GOLDER) F 2–4
winter, 4; spring, 5

228. Seminar in Japanese History.
3 units, winter and spring quarters (ICHIHASHI) Th 2–4
winter, 5; spring 6

231. Seminar in Latin-American History.
3 units, winter and spring quarters (MARTIN) M 2–4
winter, 8; spring, 9

240. Graduate Work.—Students properly qualified under the University regulations to pursue genuine graduate studies will be given special attention and due credit allotted for the work accomplished. Such students will receive individual advice and guidance, whether in set courses or in special research.
Units, not to exceed a total of 15 Hours by arrangement
autumn, 24 (5 groups); winter, 26 (6 groups); spring, 13 (2 groups); summer, 26 (5 groups)

HOOVER WAR LIBRARY

EPHRAIM DOUGLASS ADAMS (Professor of History), (Chairman), GEORGE THOMAS CLARK (Director of University Libraries), JOSEPH STANCLIFFE DAVIS (Director Food Research Institute), HAROLD HENRY FISHER (Curator American Relief Administration Archives, Secretary), FRANK ALFRED GOLDER (Professor of History), HERBERT HOOVER (Founder), RALPH HASWELL LUTZ (Associate Professor of History), GRAHAM HENRY STUART (Associate Professor of Political Science), RAY LYMAN WILBUR (President of the University), MURRAY SHIPLEY WILDMAN (Professor of Economics), Directors.
NINA ALMOND, Librarian.

The Hoover War Library is a collection of materials for research in the causes, conduct, and results of the Great War, covering also the period of reconstruction since the end of the war. These materials are of all kinds and from all the nations of the world whether belligerent or neutral, but special efforts have been made to secure those which will be useful in research along the lines of non-military history and on social, economic, and governmental problems. The Hoover War Library has a separate physical existence in the University Library, with its own research room and

staff. Its accumulations now include some 125,000 pieces, the use of which is open to graduate research students of Stanford University and to teachers from other universities, or other qualified investigators approved by the Directors. At present no research fellowships have been established. All funds are yet being directed to further acquisitions and to administration. The Hoover War Library offers no University courses of instruction, but several departments offer courses using its materials.

HOPKINS MARINE STATION

Walter Kenrick Fisher, Director.
Le Roy Abrams, Harold Heath, Ernest Gale Martin, Professors.
Herbert Spencer Jennings, Acting Professor.
James Montrose Duncan Olmsted, Acting Assistant Professor.
Earl Theron Engle (Spring Quarter), Tage Skogsberg (Summer Quarter), Acting Instructors.
John Sterling Kingsley, Charles A. Kofoid, Lecturers.
Harrington Wells, Assistant.

The Hopkins Marine Station is situated at Pacific Grove, on the south side of Monterey Bay, California. The ground area comprises seven and a half acres, consisting of the main portion of Cabrillo Point, with complete control of the coast line of the Point and including an excellent sheltered landing place and harbor for boats of considerable size. The present building, erected in 1917, is of reinforced concrete construction, approximately forty feet by eighty-three feet, and three stories in height. The first floor provides a physiological laboratory, containing a large floor aquarium, divisible into three compartments by movable partitions; a concrete-floored room for the storage of boats, collecting apparatus, etc., and for the storing of collections; a large storeroom, men's lavatory, furnace room, photographic darkroom, and janitor's rooms.

The second floor, into which the main entrance opens, is devoted to the three large general laboratories. Two private laboratories for instructors are also provided on this floor. The third floor contains a large library, with a generous fireplace, an adjoining office room, an advanced laboratory, six commodious private laboratories for investigators, and a restroom for women. Fresh and salt water is provided in each laboratory, the sea water being pumped to a concrete tank upon the roof, whence it is distributed to the various aquarium tables. Heating is provided by a hot-air system, and electric lights and gas are installed. From the third floor a stairway gives access to the flat, parapeted roof where open-air aquaria may be set up as needed.

There are thus five laboratories available for classes and eight private laboratories for investigators.

The Station fulfills a twofold purpose: first, it provides for research in biology; second, it furnishes, under exceptional natural advantages, elementary and advanced instruction in biology.

The Station is open the entire year. Investigators and special students can be accommodated at any time, but regular classes are scheduled for the Spring and Summer Quarters only.

Admission and Fee

To investigators prepared to carry on research the use of the Station facilities is tendered free of charge.

A General Fee of *seventy-five dollars* per quarter is payable by all undergraduate students taking regular courses or pursuing special work, and a similar fee of *fifty dollars* is payable by all graduate students.

Application and Payments in Advance

Owing to limited laboratory space, it will be necessary, in order to avoid confusion, for all students to make application to the Director in advance, stating (preferably on a special form) courses in which registration is desired, and possible alternative courses. On notification, students will deposit with the Director, for reservation of laboratory space, ten dollars of the General Fee. The balance will be payable on Registration Day, at the Station.

Late registration will be permitted only with the approval of the Director and of the instructors concerned.

Students will not be accepted for a half-quarter registration in any except graduate courses.

Courses of Instruction

1. Marine Zoology.—An introduction to the principles of general biology as these are illustrated by the animals of Monterey Bay.

5 units, spring and summer quarters (Fisher, Skogsberg) MWF forenoons *spring, 4; summer, 9*

9. Elementary Physiology of Marine Organisms.—In this course each student will undertake, under guidance of an instructor, to solve by his own efforts one or more simple problems in the physiology of marine organisms, either plant or animal. The problems assigned will not require an extensive background of knowledge, although elementary chemistry and elementary biology will be found helpful. Frequent informal conferences will be held, at which individual students will report their findings to the entire class; and members of the instructing staff will discuss the reports with the class in such a way as to emphasize the physiological principles involved. An effort will be made to distribute the problems over a wide enough field so that the reports and discussions will furnish a general survey of physiology.

A partial list of general headings under which assigned problems will fall is as follows:

Photosynthesis in marine plants;
Environmental conditions suitable to marine plant life;
Responses of marine plants to stimulation;
Motion in sea anemones, in starfish, in molluscs, in crustacea, in fishes;
Responses of marine animals to stimulation (tropisms);
Environmental conditions suitable to marine animal life;
Digestion and circulation in marine organisms;
Respiratory interchanges in marine forms.

Concurrent registration in course 1 is required of all students who are without some biological training. Textbook: General Biology, Burlingame, Heath, Martin, Peirce. Limited to eight students.

5 units, summer quarter (Martin, Olmsted) MWF afternoons *summer, 6*

33. Field Botany.—A general course on the classification and ecology of flowering plants. The Monterey Peninsula, with its diversity of plant associations, offers excellent facilities for field work of this character. Limited to twelve students.

5 units, summer quarter (ABRAMS) MWF afternoons
spring, 5; summer, 10

100. Marine Invertebrates.—The object of this course is to give the student the widest possible acquaintance with the animals which live along shore and in the plankton of Monterey Bay. The prescribed work will also include a study of the associations of animals, their distribution, and something of their behavior, or simple reactions. Each student will collect much of his own material in the field. Limited to twelve students.

5 units, spring and summer quarters (FISHER) MWF forenoons
summer, 11

101. The Invertebrates.—Intensive work on one species, or a group, with reference to anatomy, classification, or natural history. May be taken with course 100.

summer quarter (FISHER) Credit and hours by arrangement
spring, 9; summer, 6

102. Comparative Embryology.—A study of development in as varied a series of marine forms as possible. This will be supplemented by the consideration of the fundamental facts of vertebrate development. Limited to twelve students.

5 units, spring and summer quarters (HEATH) TThS forenoons
summer, 11

103. Germ Layers and Organ Systems of the Metazoa.—A course of lectures intended to point out resemblances and differences in the organs of animals of the larger or more important phyla, with reasons for the conditions in the several groups.

It is hoped that the lectures will connect and bind together the facts ascertained in the laboratory and will show the fundamental unity of the more important organs in all animals. With this end in view the series is based upon the development of the organs as well as on their adult morphology. Especial attention will be given to the body cavities, the digestive tract, the nervous system, and the chief sense organs, and the excretory, respiratory, and circulatory systems, stress being laid on these as exhibited in Cœlenterata, Platyhelminthes, Annelida, Arthropoda, and Chordata. These lectures are part of courses 100, 102, and 104 and are given during the hours of 100 and 102.

summer quarter (KINGSLEY) By arrangement

104. Comparative Anatomy of the Vertebrates.—A detailed examination of vertebrate morphology, for pre-medical students who are unable to complete this requirement at the University. Limited to twelve students.

5 units, spring and summer quarters (ENGLE, WELLS) By arrangement
spring, 8; summer, 11

109. Advanced Physiology of Marine Organisms.—The general method followed in this course is the same as in course 9. The problems assigned will be of a more advanced character, involving the use of standard methods of chemical and physiological research. Only students with adequate training in biology, chemistry, or physics will be enrolled.

The aim of the course is to introduce students to the physiological

problems presented by marine organisms and to familiarize them with the technique by which such problems may be attacked. Frequent informal conferences will be held at which the data secured by individual students will be discussed by the class and by the instructing staff.

To indicate the general character of the work a few representative problems are given here:

Coagulation of crustacean blood;
Oxygen dissociation curve of hemocyanin;
Buffer action and carbon dioxid-carrying power of crabs' blood;
Influence of hydrogen-ion concentration on ciliary activity;
Turgescence in medusæ;
Gas content of swim-bladders of fishes;
Salt equilibria in brine-inhabiting organisms.

Students capable of carrying on research work under guidance will be allowed the widest range practicable in the selection of problems.

5 units, summer quarter (MARTIN, OLMSTED) By arrangement
summer, 3

110. Heredity and Environment: their Interaction in Producing the Characteristics of Organisms.—The lectures will deal with the question, How are the differences between individuals produced in development? An account will be given of the experimental work which has shown that differences among certain substances found in the germ cells produce diversities in the characteristics of the individuals which develop from them, and of how the rules of inheritance result from these. The interaction of these substances with each other and with the environmental conditions to produce the various developmental stages and the final characteristics will be described, with particular attention to the distinctive rôles played respectively by heredity and by environment. Five lectures, with assigned reading, per week. Not open to beginning students.

4 units, summer quarter (JENNINGS) Hours by arrangement
summer, 9

130. Advanced Botany.—Special problems in classification and distribution of flowering plants.

summer quarter (ABRAMS) Credit and hours by arrangement
summer, 1

201. Zoology Research.—The original investigation of problems connected with the development, structure, and natural history of invertebrates.

spring and summer quarters (FISHER, HEATH, SKOGSBERG)
Credit by arrangement
summer, 5

LAW

MARION RICE KIRKWOOD, JOSEPH WALTER BINGHAM, ARTHUR MARTIN CATHCART, GEORGE EDWARD OSBORNE, WILLIAM BROWNLEE OWENS, CHESTER GARFIELD VERNIER, CLARKE BUTLER WHITTIER, Professors.

HAROLD SHEPHERD, Associate Professor.

Oscar Kennedy Cushing, Henry Granville Hill, Leonard Saxton Lyon, Stanley Morrison, Lecturers.

Albert B. Cox (Tulane University), Edward Harris Decker (University of Oregon), Noel Thomas Dowling (Columbia University), Austin Wakeman Scott (Harvard University), Acting Professors (Summer Quarter 1925).

Arthur Harold Kent, Acting Assistant Professor (Summer Quarter 1925).

THE LAW SCHOOL

The Law School was established, as a department of the University, in 1893. Its purpose is to provide a thorough legal education for students who are fitted by their maturity and their previous academic training, to pursue professional study under university methods of instruction. The curriculum covers three academic years and constitutes an adequate preparation for the practice of law in any English-speaking jurisdiction. Elective courses in Common Law Pleading, Code Pleading, Practice, Water Rights, and Mining Law are offered. In all courses some special attention is paid to problems of local law in the Western States.

A comprehensive group of courses in Public Law, of value not only to the law student but to the student who contemplates entering the diplomatic, consular, or other government service, is a feature of the curriculum.

By taking advantage of the four-quarter system, with its opportunities for summer instruction, the Law curriculum may be completed in two and one-fourth calendar years.

The Library

The Law Library contains over 30,000 volumes, including complete sets of the English, Irish, Scotch, Australian, and Canadian reports, the reports of all Federal courts, a practically complete set of the reports of the American States, the Australian States, and the Canadian Provinces, the National Reporter system, the standard collections of cases, the standard English and American legal encyclopedias, the principal American, English, and Canadian digests and citators, sets of the leading American, British, Canadian, and Continental legal periodicals, together with a good collection of textbooks. There is also a somewhat complete collection of compiled laws, session laws, and other statutory material, both Federal and State, as well as British, Canadian, and Australian.

The class of 1911, upon graduation, adopted a plan for the purchase, from time to time, of works on Legal History. This collection is known as the "Class of 1911 Memorial Collection on Legal History." The class of 1912 adopted a similar plan for the purchase of a memorial collection of celebrated trials.

Through the efforts of the Stanford Law Association a fund was established in 1923 in memory of Charles Andrews Huston, who was for many years professor of Law and Dean of this School. The income from this fund is to be used for the purchase of books for the Law Library.

Through the generosity of Justice McFarland, Justice Melvin, Justice W. A. Sloane, and Justice Frank H. Kerrigan, the Library has received,

since 1907, a complete set of the records of the California Supreme Court, and through the generosity of Justice Sloss, Justice Warren Olney, Jr., Justice C. A. Shurtleff, and Justice Frank H. Kerrigan, a complete set of the records of the District Courts of Appeal.

The University Libraries are also available for use by students of the Law School.

Admission to the Law School

Admission to the professional curriculum in Law is granted only to students who have received the degree of Bachelor of Arts, or an equivalent degree, from this University or from some other institution of recognized collegiate standing; provided, however, that students who matriculated in Stanford University prior to November 1, 1924, will be admitted to the Law School upon fulfilling the requirements in force on May 1, 1924.

In the discretion of the Faculty admission may be granted to a very limited number of students who cannot meet the foregoing requirements, but who are eligible for admission to the University, who are twenty-three years of age, and whose previous experience is such as to justify the presumption of their ability to do the work successfully. Such students are termed "unclassified" and are not eligible for a degree.

It is advised that the matter of admission be settled in advance. For this purpose those seeking admission in regular standing should furnish a complete and official transcript of their college work, showing courses pursued, grades received, and degrees conferred.

Students are admitted at the beginning of any quarter, but in the case of students beginning the study of law the summer or autumn quarters are those in which work can be most advantageously commenced.

The Degree of Bachelor of Arts

Students registered in the Law School, and who matriculated in Stanford University prior to November 1, 1924, will be recommended by the Law Faculty for the degree of Bachelor of Arts in the pre-legal curriculum upon the completion of the number of units and grade points required by the University for graduation with the Bachelor's degree; provided that these units shall have included: (*a*) The work of the Lower Division or its substantial equivalent in some other institution; (*b*) studies under the guidance of the Law Faculty covering ninety units. These studies must include the first-year professional law courses. All the other courses are elective, subject to the approval of the Faculty of Law. Additional professional law courses not to exceed twenty-six units may be chosen. As a general rule the elective studies should be mainly selected from the departments of Economics, English, History, Law, Philosophy, and Political Science. Special attention is directed to the course in Roman Law offered in the department of Classical Literature.

Candidates may be presented for graduation in January, April, June, and October. The degree will not be conferred upon any person who has not spent at least one academic year in residence at this University and received during that time forty-five units of credit, of which at least thirty-nine must be in professional law courses.

The Degree of Juris Doctor

Students who have received the degree of Bachelor of Arts, or its equivalent, from this University or from some other institution of recognized collegiate rank, and who have satisfactorily completed courses in law aggregating 115 units and who have devoted nine full quarters of time to the study of law, and who have otherwise satisfied the requirements of the University and of the Law School, will be granted the degree of Juris Doctor (J.D.).

Changes

[As it may occasionally become necessary to change the regulations and courses outlined herein, the right is reserved to make such changes without notice.]

Non-Professional Courses

[Credit in non-professional courses may be counted toward the A.B. degree, but not toward the J.D. degree.]

1. Introduction to the Study of Law.—Nature, sources, and sanction of law; outline of the historical development of English and American courts and procedure; the content, classification, and determination of rules of law, including a consideration of legal rights and duties, the doctrine of *stare decisis* and the development of some of the more elementary rules of law by combining and comparing decisions. Assigned readings and cases. Prerequisite: 55 units of academic credit.

3 units, spring quarter (Shepherd)
spring, 124

100. Business Law I.—Contracts: their formation, operation, and discharge. Principal and Agent: nature of the relation; power of the agent to bind the principal in contract and tort. This course may not be taken by law students but is open to all other students who have 110 units of credit. The class is limited to one hundred. Bays Cases on Commercial Law.

3 units, autumn quarter (Owens)
autumn, 156

101. Business Law II.—Sales of goods: the transfer of title; warranties; remedies of buyer and seller on breach of contract or warranty. Negotiable instruments: formal requisites; rights and liabilities arising from negotiation; procedure to fix liability. Prerequisite: Business Law I.

3 units, winter quarter (Owens)
winter, 108

Professional Courses

First Year

[Completion of all first-year courses is required for recommendation for the A.B. degree. Enrollment in first-year courses is restricted to students majoring in Law.]

102. Contracts I.—Mutual assent, including offer and acceptance; contracts under seal; statute of frauds; illegality; joint and several contracts. Williston, Cases on Contracts (2d ed.), and selected cases.

4 units, autumn quarter (Whittier)
autumn, 101

103. Contracts II.—Consideration; beneficiaries; assignments. Willis-

ton, Cases on Contracts (2d ed.), and selected cases. Prerequisite: Contracts I.
3 units, winter quarter (WHITTIER)
winter, 90

104. Contracts III.—Express conditions; defenses arising from breach of implied conditions, prevention, incapacitation, and repudiation; excuses for non-performance of conditions; anticipatory breach; impossibility; discharge of contracts. Williston, Cases on Contracts (2d ed.), and selected cases. Prerequisites: Contracts I and II.
4 units, spring quarter (WHITTIER)
spring, 100

105. Torts I.—Principles of tort liability as developed in the action of trespass; negligence as a basis of liability; common law and statutory duties of care; legal cause; contributory negligence. Ames and Smith, Cases on Torts (Pound's ed.), and selected cases.
4 units, autumn quarter (CATHCART)
4 units, summer quarter, first half (8 recitations weekly) (DOWLING)
autumn, 116; summer, 28

106. Torts II.—Justification and excuse; absolute liability; deceit; defamation; malicious prosecution and abuse of process; interference with social and business relations, unfair competition, combinations, strikes, boycotts. Prerequisite: Torts I, except with the permission of the instructor. Ames and Smith, Cases on Torts (Pound's ed.), and selected cases.
4 units, winter quarter (CATHCART)
4 units, summer quarter, second half (8 recitations weekly) (DOWLING)
winter, 111; summer, 23

107. Criminal Law.—Nature and sources of criminal law; crime as an act; attempts; criminal intent; circumstances affecting illegality of act; specific offenses; crimes against the person, larceny and allied offenses, crimes against the dwelling house, conspiracy. Mikell, Cases on Criminal Law.
6 units, spring quarter (VERNIER)
spring, 115

108. Personal Property.—Possession: nature, importance, and legal effect. Possessory interests arising from: tenancy, bailment, lawful seizure. Rights of a finder. Possession without right. Certain methods of acquiring title to chattels; statutes of limitations; gifts *inter vivos;* accession; confusion, etc. Liens and pledges. Conversion. Warren, Cases on Property (abridged ed.).
4 units, autumn quarter (OSBORNE)
4 units, summer quarter (KENT)
summer, 27

109. Introduction to the Law of Real Property.—Tenure; estates in land with reference to: quantity, absolute and qualified character, the time of enjoyment, number and connection of owners, creation and transfer, uses, marital interests. Selected readings and cases.
3 units, winter quarter (KIRKWOOD)
winter, 90

110. Agency I.—Nature of relation; appointment; liabilities of principal for agent's torts, contracts, crimes. Prerequisites: Contracts I and Torts I. Wambaugh, Cases on Agency.
3 units, winter quarter (SHEPHERD)
winter, 96

111. Agency II.—Liability of agent; parties to writings; undisclosed principal; principal's duties to the agent, including workmen's compensation legislation; agent's duties; delegation; termination; ratification. Prerequisites: Contracts I and II, Torts I, and Agency I. Wambaugh, Cases on Agency, and selected cases.

3 units, spring quarter (SHEPHERD)
spring, 86

SECOND- AND THIRD-YEAR COURSES

[Courses numbered 201 to 224, inclusive, while intended primarily for graduates, may be elected by students who have completed a substantial part of the first-year program, including Contracts I, II, III, and Torts I, II, and who desire to count more than forty units of law toward the A.B. degree. See specific courses for additional prerequisites. For general requirements for admission to courses 225 to 249, and 250 and above, see statements at the beginning of those groups.]

201. Common Law Pleading.—This course is intended (*a*) to provide a sufficient training in pleading for practice in a common law jurisdiction, (*b*) to furnish an adequate foundation for the study of code pleading, (*c*) to assist the student in the intelligent study of cases. It includes a study of forms of action, necessary allegations, methods of pleading defenses, defects in pleadings with methods of objecting to them and their cure, dilatory objections, cross demands. Prerequisites: Two quarters of Contracts, Torts, Personal Property and Introduction to Real Property. Whittier and Morgan, Cases on Common Law Pleading.

4 units, spring quarter (WHITTIER)
spring, 34

202. Equity I.—The development and nature of equity jurisdiction with special reference to the powers of courts of equity and the general principles governing the exercise of such powers; specific reparation and prevention of torts. Cook, Cases on Equity, Volume I.

4 units, autumn quarter (KIRKWOOD)
autumn, 58

203. Persons and Domestic Relations.—Infants; period of infancy; infants' contracts and conveyances, torts, and crimes. Husband and wife; rights of husband as to wife's property; rights of each as to earnings, services, and society of the other; husband's interest in damages for tort to wife; husband's liability for torts or contracts of wife; husband's duty to support wife and wife's authority to bind husband by her contracts; married women's contracts, conveyances, and devises; estoppel of married women; liability of married women for torts and responsibility for crimes; contracts, conveyances, and suits between husband and wife; husband's right to custody of wife. Marriage: promise to marry and breach; marriage as a contract or relation; annulment; divorce; separation. Woodruff, Cases on Domestic Relations (3d ed.).

4 units, winter quarter (VERNIER)
winter, 49

204. Sales.—Subject-matter of the contract; transfer of property and title; destruction of the goods and risk of loss; obligations of seller and buyer; rights of unpaid seller against the goods, remedies of the seller on the contract; remedies of the buyer on the contract; Statute of Frauds. Woodward, Cases on Sales.

6 units, autumn quarter (VERNIER)
autumn, 58

205. Landlord and Tenant.—Creation of relationship; duration of tenant's interest, remedies of landlord for non-performance of tenant's obligations, remedies of tenant against landlord, covenants running with the land as between landlord and tenant, rights and duties of landlord and tenant with respect to third persons. Prerequisite: Law 109, Introduction to Real Property. Selected cases.
3 units, autumn quarter (KIRKWOOD)
autumn, 33

206. Water Rights.—An intensive study of water rights in the Western States. Extent of riparian rights and liberties; the law of prior appropriation; relative priorities of riparian and non-riparian rights and liberties of use; extinguishment of riparian rights; rights in diffused and underground waters; rights in interstate streams; federal and state powers of control. Prerequisites: Law 109, Introduction to Real Property; Law 202, Equity. Bingham's Cases on Water Rights.
4 units (BINGHAM) [To be given in 1925–26]

207. Mining Law.—A course on mining titles under the federal mining acts, with especial reference to mining rights in the Western States and Alaska. Prerequisites: Law 109, Introduction to Real Property; Law 202, Equity. Costigan, Cases on Mining Law.
4 units (BINGHAM)

208. Bailments and Carriers.—Bailments in general, including bailments for hire, for services to be performed, and for hired use. Special classes of bailments involving ordinary liability: pledges; warehousemen. Special classes of bailments involving exceptional liability: innkeepers; common carriers of goods; common carriers of passengers. Green, Cases on Carriers.
4 units, winter quarter (SHEPHERD)
winter, 35

209. Public Utilities.—The nature, rights, and duties of public service callings and businesses under the common law: railroads and canals; telephone and telegraph; gas, water, irrigation, and other public utilities. The legislative and administrative regulation of public utilities under the police power, especially rate regulation. The Interstate Commerce Act: scope of commerce regulated by the Act; duties of carriers under the Act. Burdick, Cases on Public Service, and selected cases.
4 units, summer quarter, second half (8 recitations weekly) (CATHCART)
summer, 21

210. Trade Regulation.—Contracts and combinations in restraint of trade. Contracts accompanying the sale of a business or of property; exclusive contracts of sale and purchase; contracts of buyers to keep up prices on resale. Disparagement of goods and unfair competition. Combinations and competitive methods of labor units, of trade or manufacturing units, and of public service units. Modern statutes regulating trade, especially the Sherman Anti-Trust Act, the Federal Trade Commission Act, and the Clayton Act. No law credit if taken before Contracts and Torts. Oliphant, Cases on Trade Regulation.
4 units, spring quarter (CATHCART)
spring, 8

211. Damages.—Respective functions of court and jury in estimating damages; exemplary, liquidated, nominal, direct, and consequential damages; avoidable consequences; counsel fees; certainty, compensation,

damages for non-pecuniary injuries; value; interest; and damages in certain actions of tort and contract. Case book to be announced.
3 units, autumn quarter (SHEPHERD) [Not given in 1924–25]

212. Quasi-Contracts.—Origin and nature of quasi-contracts. Benefits conferred in misreliance on right or duty; general principles; misreliance resulting from mistake of law; misreliance on invalid contract, on contract unenforceable because of Statute of Frauds, on illegal contract, on contract impossible of performance, on contract unenforceable because of breach, on supposed requirement of valid contract, on non-contract obligation, on ownership of property. Benefits conferred through dutiful intervention in another's affairs. Benefits conferred under constraint; constraint of duress, of legal proceedings, of tax or assessment: Action for restitution as alternative remedy for breach of contract and for tort. Thurston, Cases on Quasi-Contracts.
4 units, autumn quarter (OSBORNE)
4 units, summer quarter, first half (8 recitations weekly) (OSBORNE)
autumn, 29; summer, 20

213. Insurance.—Marine, fire, and life insurance. Insurable interests in various kinds of policies; concealments; misrepresentations; warranties and other matters affecting the validity of the contract; amount of recovery; subrogation; waiver, estoppel, election; powers of agents; assignees and beneficiaries.
4 units, summer quarter, second half (8 recitations weekly) (DECKER)
summer, 13

214. Wills.—Devolution of property of a decedent by intestate succession. The nature of wills and testaments. Probate and its effect. Testamentary capacity. Testamentary intent. Effect of fraud, undue influence, or mistake on the validity of a will. Formalities essential to execution of a valid will. Incorporation by reference. Nullification of wills by (1) revocation; (2) ademption or lapse of legacies or devises; (3) by other circumstances. Republication of wills. Prerequisites: Law 109, Introduction to Property; Law 202, Equity. Gray's Cases on Property, Vol. IV (2d ed.), and selected cases.
4 units, winter quarter (BINGHAM)
winter, 8

215. Admiralty.—Those principles and rules peculiar to admiralty and maritime law, with particular reference to the United States, involving the application of rules of law to transactions upon the sea and navigable waters and including: (1) the extent and nature of the jurisdiction of federal and state courts in applying such rules; (2) the nature of the substantive maritime law of the United States; (3) the maritime lien or right *in rem*, its nature and when it exists; (4) the substantive law of salvage, general average, and with regard to the rights of seamen; (5) the right under federal statutes of a shipowner to limit his liability to the value of his ship, or by contract to avoid liability for the loss or injury of goods carried by sea; and (6) the admiralty rule for the division of damages in cases of mutual fault. Selected cases.
4 units, spring quarter (MORRISON)
spring, 13

216. Public International Law.—Nature of International Law; its relation to Municipal Law. International relations in time of peace; recognition and classification of states; jurisdiction on land and on the

high seas; acquisition and transfer of jurisdiction; non-belligerent settlement of international controversies. International relations as modified by war; effect of war as between enemies; relations between belligerents and neutrals. Open to students in other departments on petition. Scott's Cases on International Law.

4 units, autumn quarter (BINGHAM)
autumn, 8

[Courses numbered 225 to 249, inclusive, may be taken by undergraduate students only in exceptional instances and upon petition in each case.]

225. Constitutional Law I.—Making and changing constitutions; function of judiciary in enforcing constitutions; separation and delegation of powers; political rights; personal liberty; interstate privileges and immunities of citizens; operation of fourteenth amendment; due process and equal protection of law; procedure; police power; taxation; eminent domain. No law credit if taken before Law 102–4 (Contracts) and Law 105–6 (Torts). Hall, Cases on Constitutional Law, and selected cases.

3 units, winter quarter (CATHCART)
winter, 54

226. Constitutional Law II.—General scope of federal powers; foreign relations, Indians, aliens; territories, dependencies, new states; federal taxation; regulation of commerce; inter-governmental relations; protection to persons accused of crime; retroactive laws in civil cases; state laws impairing obligation of contracts; jurisdiction of federal courts. Course 225 not a prerequisite. No law credit if taken before Law 102–4 (Contracts) and Law 105–6 (Torts). Hall, Cases on Constitutional Law, and selected cases.

3 units, spring quarter (CATHCART)
spring, 39

227. Administrative Law and Public Officers.—Administrative regulations; jurisdiction, discretion, adjudication; enforcement of orders; habeas corpus; mandamus; certiorari; equitable jurisdiction in public law. Freund, Cases on Administrative Law.

4 units, autumn quarter (SHEPHERD)
autumn, 13

228. Bankruptcy.—Jurisdiction of the United States and the several states; who may be a bankrupt; who may be petitioning creditors; acts of bankruptcy; what property passes to the trustee; provable claims; duties and powers of the bankrupt and his trustee; protection, exemptions, and discharge. Williston, Cases on Bankruptcy.

4 units, spring quarter (OSBORNE)
spring, 15

229. Equity II.—Specific performance of contracts. Ames, Cases on Equity Jurisdiction, Volume I.

3 units, winter quarter (KIRKWOOD)
winter, 16

230. Title to Land.—I. Original titles founded on possession, prescription, and accretion. II. Modern conveyancing: execution of deeds, description of the property conveyed, creation of easements by implication, covenants for title, estoppel by deed, fraudulent conveyances, recording. Aigler, Cases on Titles to Real Property.

5 units, spring quarter (KIRKWOOD)
spring, 35

231. Rights in the Land of Another.—Natural rights, profits, easements, covenants running with the land, public rights, franchises, rents. Bigelow, Cases on Rights in Land.
4 units, summer quarter, first half (8 recitations weekly) (KIRKWOOD)
summer, 17

232. Future Interests.—Vested and executory interests; construction of limitations of future interests; powers; the rule against perpetuities; conditions; restrains on alienation. Kales, Cases on Future Interests.
6 units, winter quarter (OSBORNE)
winter, 16

233. Trusts.—The Anglo-American system of uses and trusts. Nature of a trust; other sorts of interests and relations distinguished; the creation, transfer, and extinguishment of trust interests, express, resulting, and constructive; validity of trusts; effect of statutes; charitable trusts; priorities and relative validity of competing equities; importance of the legal title to one claiming adversely to a trust or other equitable interest; remedies of creditors against the trust property; duties of the trustee. Prerequisite: Law 202, Equity. Scott, Cases on Trusts.
6 units, spring quarter (BINGHAM)
5 units, summer quarter (SCOTT)
spring, 39; summer, 14

234. Partnership.—Nature of a partnership, its purposes, and members; creation of partnerships; nature of partner's interest; firm name and goodwill; mutual rights and duties of partners; actions between partners, at law and in equity; powers of partners; liability for acts of partners in contract and tort; general liability of partners; dissolution and notice; consequences of dissolution; dissolution agreements respecting debts; distribution of assets to creditors, and between partners; limited partnerships. Gilmore, Cases on Partnership.
4 units, summer quarter, first half, (8 recitations weekly) (OWENS)
summer, 20

235. Mortgages.—All forms of mortgage security, both real and chattel; essential elements of legal and equitable mortgages; legal and equitable rights, powers and remedies of mortgagor and mortgagee with respect to title, possession, rents and profits, waste, collateral agreements, foreclosure, redemption; priorities; marshaling; extension of mortgages; assignment of mortgages; discharge of mortgages. Case book to be announced.
4 units, spring quarter (OSBORNE)
spring, 11

236. Bills and Notes.—Negotiability; form and inception, form of bill and of note, acceptance, delivery, consideration, negotiation, transfer holder in due course; liability of parties, maker and acceptor, drawer and indorser, transferor; discharge; effect of the Negotiable Instruments Law. Case book to be announced.
6 units, winter quarter (VERNIER)
winter, 47

237. Suretyship.—Personal suretyship compared with real suretyship (mortgages, pledges, liens, etc.); suretyship obligations compared with insurance and indemnity obligations; guaranty and other forms of suretyship in relation to the Statute of Frauds; suretyship in transactions involving negotiable instruments; fidelity contracts and judicial bonds; surety's defenses due to original defects in his obligation or to its subse-

quent discharge; surety's right to subrogation, indemnity, contribution, or exoneration; creditor's right to surety's securities. Ames, Cases on Suretyship.

4 units, summer quarter (SCOTT)
summer, 11

238. Municipal Corporations.—Nature; creation, alteration, and dissolution; internal organization; powers; liabilities on contract and for torts; remedies. Beale, Cases on Municipal Corporations, and selected California cases.

4 units, autumn quarter (MORRISON)
autumn, 26

239. Evidence A.—This course deals with certain procedural and substantive law topics commonly considered in connection with evidence though not strictly a part of that subject. They are: judicial notice; functions of court and jury; presumptions; burden of proof; the parol evidence rule including construction of instruments. Thayer, Cases on Evidence.

4 units, summer quarter, second half, 8 recitations weekly (Cox)
summer, 17

240. Taxation.—This course deals with the legal aspects of taxation, including jurisdiction to tax; personal, property, excise, inheritance, and income taxes; assessment; exemptions; obligation of a tax; remedies for illegal taxation. Beale, Cases on Taxation, and federal income tax regulations.

4 units, winter quarter (MORRISON)
winter, 11

[Courses numbered 250 and above are intended primarily for law graduates in their last year of study.]

250. Private International Law I (Conflict of Laws).—A study of the influence which considerations of the jurisdiction of a state and considerations of foreign law have upon the decisions of courts in cases involving events or things or persons under foreign jurisdiction. The study includes particularly questions of the jurisdiction of states and of courts, of the effects of foreign judgments and decrees, of legal domicile, of divorce and of actions for foreign wrongs. Beale, Cases on Conflict of Laws (larger edition).

4 units, autumn quarter (BINGHAM)
autumn, 31

251. Private International Law II (Conflict of Laws).—A continuation of Law 250. The following topics are treated: property interests, decedent's estates, torts, legal capacity, marriage, marital interests, and contracts. Beale, Cases on Conflict of Laws (larger edition).

3 units, winter quarter (BINGHAM)
winter, 12

252. Private Corporations.—The nature of a corporation; promotion of corporations; corporate powers; corporate liability for torts and crimes; unauthorized corporate action, including doctrines of *de facto* incorporations, and *ultra vires* acts; officers, stockholders, and creditors of corporations; reorganization of corporations. Warren, Cases on Corporations (2d ed.).

6 units, spring quarter (OWENS)
spring, 29

253. Code Pleading.—The civil action; splitting and joining actions; the complaint, including the caption, the statement of facts, and the prayer for relief; the answer, including general and specific denials, affirmative defenses and counterclaims; the demurrer; the reply; motions; bills of particulars; amendment and aider; construction of pleadings. Selected cases.
4 units, autumn quarter (CATHCART)
autumn, 32

254. Evidence I.—Introductory topics. Witnesses: competency; privilege; examination; impeachment; rehabilitation. Certain rules of exclusion; conjectural evidence; character evidence; hearsay. Thayer, Cases on Evidence.
3 units, autumn quarter (WHITTIER)
autumn, 39

255. Evidence II.—The exceptions to the hearsay rule; opinion evidence; real evidence; proof of execution of writings; the "best evidence" rule. Prerequisite: Evidence I. Thayer, Cases on Evidence.
3 units, winter quarter (WHITTIER)
winter, 34

Practice.—In this course consideration is given to the procedural problems confronting the lawyer in the commencement and prosecution of a civil action, omitting the subject of pleading which is taught in other courses. The problems are studied as nearly as possible in the order in which they arise in practice. In the third quarter a court is organized and students are given practice in the institution and conduct of a civil action, including preparation and service of notices, etc.; writs, pleadings, the making of motions; argument on law and motion matters, setting case for trial, and trial of an actual case before a jury chosen from members of the first- and second-year classes; appeal, preparation of record and briefs on appeal, and argument on appeal. Also probate and administration proceedings in an estate are conducted.

256. Practice I.—Necessity for a cause of action; statutes of limitation; parties to actions; venue; jurisdiction; process. Selected cases.
4 units, autumn quarter (OWENS)
autumn, 40

257. Practice II.—Appearance; provisional remedies; motions; trial; verdict; judgment. Prerequisite: Practice I. Selected cases.
4 units, winter quarter (OWENS)
winter, 36

258. Practice III.—Proceedings subsequent to trial: execution; costs; new trial; appeal. Probate and administration proceedings. Prerequisites: Practice I and II. Selected cases.
4 units, spring quarter (OWENS)
spring, 25

259. Problems of Judicial Administration.—The difficulties of judicial organization and procedure with the remedies adopted or proposed. Special topics such as: sources of procedural law, statutes and rules of court; selection and tenure of judges; court organization; special courts; arbitration and conciliation; the bar; legal aid; costs; simplification of pleadings; rules of evidence; the jury; appeals; uniformity. Primarily for graduate students, but open to well prepared undergraduates in their fourth year upon obtaining permission from the instructor. Should

be preceded when possible by the courses in practice, pleading, and evidence. May not be counted toward a degree in law unless the student previously has obtained credit in Contracts I, II, III and Torts I, II.
4 units (WHITTIER) [Not given in 1924–25]

LIBRARY

GEORGE THOMAS CLARK, Director of the University Libraries.
CHARLES V. PARK, Assistant Librarian.
HELEN BINNINGER SUTLIFF, Chief Cataloguer.
ALICE NEWMAN HAYS, Reference Librarian.
ELIZABETH HADDEN, Chief Order Division.
LOUISE OPHÜLS, Medical Librarian.
NINA ALMOND, Hoover War Librarian.
MINNA STILLMAN, Document Librarian.
FRANCES E. SHELDON, Law Librarian.
SOLON SHEDD, Curator, Branner Geological Library.

The Library is open during term time on week days from 8 a.m. to 10 p.m., except on Saturdays, when it is closed at 5 p.m. The Sunday hours are from 2 p.m. to 6 p.m. During vacations the hours are from 8:30 a.m. to 4:30 p.m., Saturdays to 12:30 p.m. The shelves are open to members of the faculty, and, on recommendation of their instructors, to students engaged in advanced work. Books, other than works of reference, not required for class use or otherwise restricted, are available for circulation under prescribed rules to those entitled to the privileges of the Library. A handbook giving information relative to the Library and how to use it has been published, and may be obtained upon request.

The Library is available for use by all registered students without the payment of additional fees. Visitors regularly attending lecture courses or other university exercises, but not registered, are entitled to the privileges of the Library upon payment of a fee of $1.25 per quarter.

Including the departments of law and medicine, the Library contains upward of 390,000 volumes. The income of the Jane Lathrop Stanford Jewel Fund, certain other special funds, and fees provide for its maintenance and growth.

The Library building is well adapted to meet the needs of advanced and graduate students. It contains nine rooms in which seminar classes may be held; and one large room which serves as a reading room for students in seminar classes. Tables on each floor of the stack make it possible for any graduate student to work in easy reach of the material in his field.

Two collections of especial interest to research workers in the fields of history and economics will be found in the Hoover War Library and the Document room, both on the first floor.

The Document division brings together the Library's collection of city, state, and federal documents. It is especially strong in the publications of the United States, Great Britain, Canada, and Australia. The publications of other countries are being added as fast as circum-

stances permit. The collection now numbers 40,000 volumes, besides much unbound material.

The Hoover War Library contains some 125,000 printed and manuscript items on all aspects of the Great War, 1914–18, and for all nations, whether warring or neutral. It is rich in government documents, in delegation propaganda at the peace conferences, in files of the publications of social and political societies, and in newspapers. A special reading room facilitates the use of the collection.

Other noteworthy special collections are:

The Jordan Library of Zoology.—A collection consisting largely of works on ichthyology, to a considerable extent made up of a vast number of author's separates, which have been accumulated by Chancellor Jordan, bound in convenient form, indexed, and catalogued. The more voluminous publications, such as the works of Cuvier, Lacépède, Bloch, Bleeker, Günther, and others, are well represented. These, supplemented by the proceedings of various societies and institutions, make a collection of books of great value to advanced students and investigators in ichthyology. The library is conveniently arranged, in the zoology building, near the laboratories and collections.

The Barbara Jordan Library of Birds.—A memorial collection presented by Chancellor Jordan, to which frequent additions are made. While some of the older texts are not represented, it is a good working library of ornithology and contains the principal modern works.

The Branner Geological Library.—The geological library (room 333) is the result of twenty-five years of painstaking acquisition by Dr. John Casper Branner. It includes a vast wealth of material relating to geology, paleontology, mineralogy, geography, mining and metallurgy. It is especially well equipped with files of journals and the transactions of scientific societies, together with a large collection of state and government reports.

The Hopkins Railway Library.—A collection of approximately 10,000 volumes and pamphlets dealing with the subject of transportation. In 1892 Mr. Timothy Hopkins, of San Francisco, presented to the University his private library on railroads, consisting of about 2,000 books, personally providing for its maintenance and growth for many years. The collection is general in scope, intended to embrace all subjects touching on the building, maintenance, and operation of railways. It is especially rich in state and government reports, as well as in reports of individual railroads both in the United States and Europe, with much material pertaining to their history.

The Law Library.—A library of about 28,000 volumes, selected with care and adequate for the study of English and American law. It contains practically complete sets of the reports of the courts of England, Scotland, Ireland, Canada, the United States and the several states, together with a valuable collection of statutes, treatises, and periodicals.

The Lane Medical Library.—Founded by the directors of Cooper Medical College in accordance with the bequest of Mrs. L. C. Lane. The library contains about 60,000 volumes, and is particularly rich in its collection of medical and allied periodicals. The leading domestic and foreign journals are currently received. The library building, erected

in 1912, is opposite the other medical buildings, on the corner of Sacramento and Webster streets, San Francisco.

Two noteworthy special collections are the Barkan library of ophthalmology and oto-laryngology, endowed by Dr. A. Barkan, professor emeritus of ophthalmology, and the new library on the history of medicine, supported by Stanford University and Dr. A. Barkan conjointly. To date this library contains about 5,000 volumes.

MATHEMATICS

Robert Edgar Allardice, Rufus Lot Green, Hans Frederik Blichfeldt, Professors.

The courses in this department have been arranged to meet the wants of two classes of students—students whose major subject is Mathematics, and students, who, while taking their major in some other department, desire to include some mathematics in their course. Students in Engineering are provided for in the Department of Applied Mathematics.

Students intending to major in Mathematics should take courses 10 and 11 during the first two years, and also courses 1 and 2, if they have not had trigonometry and solid geometry at the high school. Course 140 should be taken at the beginning of the junior year; and, for the Bachelor's degree, four other courses (including differential equations) are required, to be selected from the courses following number 140.

Students whose major subject is Mathematics are recommended to begin the study of either French or of German in their freshman year.

Students who desire to take one or more years in Mathematics as a part of a liberal training are recommended to begin their work in this department with one or more of the courses 1, 2, 10, and 20.

The Teacher's Recommendation.—For a minor in Mathematics the following courses are required: 1, 2, 10, 11, 200*a*; for a major, course 140 in addition to these courses.

1. Trigonometry.—Elementary courses with applications involving logarithmic calculation.

4 units, autumn and *winter quarters (———)
(autumn) MTWTh 9, 11; (winter) MTWTh 9
autumn, 38 (2 sections); winter, 14; summer, 10

2. Solid Geometry.—Elementary course.

3 units, winter quarter (———) MWF 11
winter, 9

10. Algebra.—Fundamental laws degree, symmetry, indeterminate coefficients, remainder theorem, factors, introduction to theory of equations. Presupposes entrance credit in elementary algebra.

5 units, autumn quarter (Green) MTWThF 9
autumn, 21; summer, 9

11. Coördinate Geometry.—An elementary course in the analytic geometry of the conic sections. Presupposes course 10.

5 units, winter and spring quarters (Green) MTWThF 9
winter, 9; spring, 9

20. General Course.—An elementary survey of trigonometry, coördinate geometry, calculus, and statistics, sufficient to cover the ordinary needs of science majors, as well as of other students who cannot afford the time required for the separate courses, but who desire an understanding of the fundamental principles involved and an ability to put these principles to practical use. Presupposes elementary algebra and plane geometry.
5 units, autumn, winter, and spring quarters (BLICHFELDT) MTWThF 9
autumn, 27; winter, 16; spring, 8

120. Mathematical Theory of Investments.—An introductory course, presupposing a college course in algebra or two years of algebra in the high school; also, ability to use logarithms.
5 units, autumn quarter (GREEN) MTWThF 8
autumn, 13

121. Life Insurance.—An introduction to actuarial theory. Presupposes course 120.
5 units, winter quarter (GREEN) MTWThF 8
winter, 10

140. Differential and Integral Calculus.—An elementary course.
5 units, autumn and winter quarters (ALLARDICE) MTWThF 9
autumn, 7; winter, 9

141. Advanced Calculus.—A continuation of course 140.
5 units, spring quarter (ALLARDICE) MTWThF 9
spring, 17

150. Differential Equations.
5 units, autumn quarter (BLICHFELDT) MTWThF 10
autumn, 12; winter, 12; spring, 10; summer, 13

155. Projective Geometry.
5 units, autumn quarter (ALLARDICE) MTWThF 11
autumn, 6

200a. Plane Geometry.
5 units, winter quarter (ALLARDICE) MTWThF 9
winter, 14

200b. Teacher's Course in Algebra.
5 units, spring quarter (GREEN) MTWThF 8
spring, 16

205. Theory of Functions.
5 units, spring quarter (ALLARDICE) MTWThF 11
spring, 10

210. Selected Readings.
(ALLARDICE, BLICHFELDT) By arrangement
autumn, 5; winter, 7; spring, 5

245. Groups of Finite Order.
5 units, autumn, winter, and spring quarters (MANNING) By arrangement
autumn, 6; winter, 3

250. Advanced Differential Equations.
5 units, winter and spring quarters (BLICHFELDT) By arrangement

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MEDICINE

WILLIAM OPHÜLS, Dean.
ALBION WALTER HEWLETT, Secretary of the Medical Faculty.

Admission to the Medical School

(1) Graduation from high school (or its equivalent), comprising fifteen recommended units, as defined by the University for admission to the freshman class. (*Special students* are not admitted to registration in Medicine.)

(2) Three full years of college work, totaling 135 units (90 semester units), of a grade equivalent to that of Stanford University (counting as many grade points as there are units). The required work in these three years is that laid down by the Association of American Medical Colleges in Physics, Chemistry, Biology, and English, together with a reading knowledge of either French or German, and additional work in Chemistry as indicated below.

(3) In addition to the A. A. M. C. minimum in Chemistry, the University requires Qualitative and Quantitative Analysis and Organic Chemistry.

(4) In Biological Science the University requires 15 quarter units, or 10 semester units, made up of courses in General Zoology (or General Biology), Comparative Anatomy of the Vertebrates, and General Vertebrate Embryology, substantially equivalent to the courses in those subjects given at Stanford University as indicated below.

No conditions are permitted. Candidates for admission who in June, 1925, will have completed the above requirements except for a few units in collegiate subjects, should plan to make up these deficiencies in full by attendance at summer sessions during the summer of 1925.

In practice the above requirements as applied to the pre-medical courses of Stanford University students work out about as follows:

CHEMISTRY

Course 7 (General Inorganic Chemistry), 2 units.
Course 9 (General Inorganic Chemistry), 2 units.
Course 4 (General Inorganic Laboratory), 3 units.
Course 20 (Qualitative Analysis), 6 units.
Courses 111 and 112 (Quantitative Analysis), 5 units.
Course 127 (Organic Chemistry), 5 units.

Students without entrance credit in Chemistry take courses 1, 2, and 3 instead of 7 and 9. Total, 23 (or 28) quarter units; 15⅓ (or 18⅔) semester units.

PHYSICS

Course 1 (Mechanics and Heat), 5 units.
Course 2 (Electricity and Light), 4 units.
Course 3 (Lenses), 1 unit.
Course 20 (Modern Physics), 3 units.
Total, 13 quarter units (8⅔ semester units).

BIOLOGY

Course 1 (General Zoology), 5 units (or General Biology 1, 2, and 3, 9 units).
Course 104 (Comparative Anatomy of the Vertebrates), 5 units.
Course 106 (Vertebrate Embryology), 5 units.
Total, 15 quarter units (10 semester units).

ENGLISH

Nine quarter units (6 semester units).

FRENCH OR GERMAN READING KNOWLEDGE

This varies somewhat with the ability of the student, but implies at least the equivalent of a year's work of 15 (quarter) units.

Applicants for admission to the Medical School, or for advanced standing in Medicine should communicate with The Registrar, Stanford University, California; those desiring information concerning the upper classes of the Medical School (*i. e.*, from the fifth to the twelfth quarters), should communicate with The Dean, Stanford University Medical School, 2398 Sacramento Street, San Francisco, Calif.

The Curriculum in Medicine

The required period of study for the degree of Doctor of Medicine is twelve quarters plus the interne year. The work of the first four quarters is given at Stanford University and is devoted to anatomy, bacteriology, chemistry, embryology, histology, neurology, and physiology. The next eight quarters are devoted to work in the pharmacological, pathological, and clinical laboratories, and in the hospital wards and the out-patient department in San Francisco. The last year is spent in hospital work.

In order to correlate the work of some of the departments and to facilitate research in others, all courses in Medicine, except those in anatomy, bacteriology, chemistry, and physiology, are given in San Francisco. By reducing the number of required hours to approximately the number decided upon by the Association of American Medical Colleges, the student's opportunity for taking optional and elective courses has been increased and time obtained for thesis work.

Fees

The tuition fee for all students (graduate and undergraduate) in the School of Medicine is $85 per quarter; the guild fee is $2 per quarter. Medical students desiring membership in the Stanford Union, Women's Clubhouse, or Associated Students, or the use of the gymnasia and athletic grounds, will pay the usual fees designated for these purposes. A deposit to cover breakage or loss of apparatus and materials may be required in any department, such deposits being returnable, less charge for breakage, loss, or wear and tear of apparatus. The total deposits for this purpose may vary from $10 to $20 per annum.

Drafts and checks should be drawn for the exact amount to the order of Stanford University Medical School, as no change can be returned to students on checks or drafts.

I. ANATOMY

Arthur William Meyer, Charles Haskell Danforth, Frank Mace McFarland, Professors.
Clara S. Stoltenberg, Associate Professor.
Anna Franklin Barnett, Herlwyn R. Green, Teaching Assistants.
Frank Barrett, Susanne L. Milthaler, Technical Assistants.

[For outline of courses see under Anatomy, pp. 137–138.]

II. BACTERIOLOGY AND EXPERIMENTAL PATHOLOGY

Wilfred Hamilton Manwaring, Professor.
Edwin William Schultz, Associate Professor.
John Edward Blair, Instructor.

[For outline of courses see under Bacteriology and Experimental Pathology, pp. 142–143.]

III. CHEMISTRY

Robert Eckles Swain, Professor.
Norris Watson Rakestraw, Instructor.

Biochemistry.—(See courses 141–143, Department of Chemistry.)
4 units (44 hours), autumn and *summer quarters (Swain, Rakestraw)
MTWThF 8

Biochemistry.—A laboratory course. Should be preceded by course 20 (Qualitative Analysis); 111–112 (Quantitative Analysis), and 127 (Organic Chemistry) in the Department of Chemistry. (See Chemistry 142–144.)
4 units (132 hours), autumn, winter, and *summer quarters
(Swain, Rakestraw) 4 afternoons, 1:05–4:05

[Students enrolled as medical students will be required to deposit $15 breakage fee for courses 142–144; other University students will pay the usual fee of $30.]

IV. MEDICINE

Albion Walter Hewlett (Executive), Thomas Addis, Ernest Charles Dickson, Harold Kniest Faber, Professors.

Harry Everett Alderson, William Fitch Cheney, William R. P. Clark, Harold Phillips Hill, Walter Frank Schaller, Clinical Professors.

George de Forest Barnett, William Edward Chamberlain, Henry George Mehrtens, Associate Professors.

Walter Whitney Boardman, Thomas George Inman, Alfred Cummings Reed, Julian Wolfsohn, Henry Herbert Yerington, Associate Clinical Professors.

Robert Reid Newell, Assistant Professor.

Millicent Mary Cosgrave, James Arthur Cutting, Mary H. Layman, Arthur Aloysius O'Neill, Philip Hale Pierson, Harry Spiro, Assistant Clinical Professors.

Harry Alphonso Wyckoff, Instructor.

Joseph H. Catton, Aime N. Fregeau, Norbert J. Gottbrath, Maude Noble Haven, Willard E. Kay, Thomas Henshaw Kelly, William Kenney, John J. Kingston, [Frank A. Kinslow], Frederick Walter Kroll, John Kent Lewis, Peter Harrison Luttrell, Mary Jones Mentzer, Jay Marion Read, Joseph Abraham Sampson, Lorenz J. Schermerhorn, Hermann Schussler, Jr., Clinical Instructors.

Martin Benzinger, Robert Burns, Jr., Isabella Clinton, Harry Carson Coe, Donald G. Davy, Lloyd B. Dickey, Fred Firestone, W. Edward Glaeser, Charles Dudley Gwinn, James H. Hall, Harvey S. Hunsberger, Grace M. Hunt, J. Walter Jones, Lois

M. Kendall, Donald Lum, Helen Marshall, Laird M. Morris, James C. Parrott, Gladys M. G. Rivington, Alfred A. Robinson, Guy D. Schoonmaker, Roland F. Seitz, Julius Sherman, Edward F. Stadtherr, James M. Sullivan, Louise Everett Taber, Stuart C. Way, Edward K. Woods, Assistants.

Adelaide Brown, Lecturer on Child Hygiene.

Guy Stevens Farrington, Lecturer on Speech Defects.

Arthur John Ritter, Lecturer on Mental Deficiency.

John Lockhart Campbell, Clinic Dentist.

Divisions

PEDIATRICS	ELECTROTHERAPY	TROPICAL MEDICINE
NEUROPSYCHIATRY	RADIOLOGY	TUBERCULOSIS
CUTANEOUS MEDICINE AND SYPHILIS		

Instruction in the Department of Medicine normally commences in the fifth quarter of medical registration, at which time the courses in Physical Diagnosis and Clinical Pathology are started. These courses are prerequisite for most other courses in this department.

Before beginning the interne year, students are required: (1) to have completed the prescribed courses, and (2) to have passed a final examination in Internal Medicine, Neurology, Diseases of Children, and Cutaneous Medicine.

Deviations from this general plan of work will be permitted only after obtaining permission of the instructors involved and of the Executive Head of the Department of Medicine.

Courses for Second-Year Medical Students

201. Physical Diagnosis.—An introductory course in physical diagnosis is offered during the Winter Quarter, based mainly upon a study of normal subjects. A continuation of this course based mainly upon the study of those presenting physical abnormalities is offered during the Spring Quarter.

4 hours, winter quarter; 4 hours, spring quarter (88 hours in all)
Barnett (San Francisco Hospital) ThS 9–11, winter quarter
Th 10–12, S 9–11, spring quarter

winter, 36

202. Clinical Pathology.—Lectures and laboratory work. The usual methods of examining the urine, blood, sputum, gastric contents, feces, and spinal fluid are carried out by the student and the significance of abnormalities noted.

3 hours (66 hours), winter and spring quarters, in San Francisco
(Wyckoff) (R 312b) T 10:30–12, F 9:30–11, winter quarter;
TF 10:30–12, spring quarter

winter, 36

206. Diseases of the Kidneys, the Blood, and of Metabolism.—Clinics and recitations.

3 hours (33 hours), spring quarter (Addis, Haven, Shepardson)
(R 311) MTF 9:30–10:30

autumn, 29

FOR THIRD-YEAR MEDICAL STUDENTS

203. Diseases of the Thoracic Organs.—Clinics and recitations. Given to sections of half the class.

3 hours (33 hours), autumn or winter quarter (SPIRO, FREGEAU, MENTZER, PIERSON) (Lane Hall) MWF 10:30–11:30

autumn, 15; winter, 13

204. Diseases of the Digestive Tract.—Clinics and recitations. Given to sections of half the class.

3 hours (33 hours), autumn or spring quarter (BOARDMAN, LUTTRELL, KROLL) (R 311) MWF 10:30–11:30

autumn, 14

205. (a) Tuberculosis; (b) Minor Complaints.—Given to sections of half the class.

2 hours (22 hours), winter or spring quarter (PIERSON, LEWIS) (R 311) M and W or F 10:30–11:30

winter, 16

207. Experimental Medicine.—Discussion of selected topics dealing with the functional pathology of internal diseases.

2 hours, autumn quarter, 1 hour, spring quarter (33 hours in all) (HEWLETT) (Lane Hall) MS 11:30–12:30 autumn quarter; S 10:30–11:30 spring quarter

autumn, 29

210. Physical Therapeutics.—Lectures and demonstrations of various methods other than the use of drugs that are employed in the treatment of diseases: including hydrotherapy, electrotherapy, mechanotherapy, etc. Given to sections of half the class.

2 hours (22 hours), winter quarter (LANGNECKER) (Physiotherapy Dept.) M 2:30–4:30 or F 1:30–3:30

winter, 28

211. Dietetics.—Lectures and recitations.

2 hours (22 hours), autumn quarter (ADDIS, SHEPARDSON) (R 311) T 1:30–2:30, Th 2:30–3:30

autumn, 30

212. Pediatrics.—Clinics, recitations, and lectures.

1 hour (22 hours), autumn and winter quarters (FABER) (Lane Hall) T 11:30–12:30

autumn, 29; winter, 28

213. Pediatrics.—Clinics, recitations, and lectures.

1 hour (22 hours), autumn and winter quarters (LAYMAN) (Lane Hall) S 10:30–11:30

autumn, 29; winter, 28

214. Lectures on Pediatrics.—Autumn quarter, Communicable Diseases; Winter, Child Welfare.

1 hour (22 hours), autumn and winter quarters (O'NEILL, BROWN) (Lane Hall) Th 1:30–2:30

winter, 28

215. Neurology.—Clinics, lectures, and recitations.

2 hours (44 hours), winter and spring quarters (INMAN) (Lane Hall) TTh 9:30–10:30

winter, 27

216. Dermatology.—Lectures and recitations.

1 hour (22 hours), winter and spring quarters (ALDERSON) (R 311) S 9:30–10:30

winter, 25

217. Radiology.—Lectures and section work.

2 hours (22 hours), winter quarter (CHAMBERLAIN, NEWELL) (Lane Hall) Lec. Th 3–4; (X-ray Dept.) Sections MWF 4:30–5:30

winter, 28

FOR FOURTH-YEAR MEDICAL STUDENTS

(For morning work the fourth-year class is divided into two sections, one of which works at the San Francisco Hospital, the other in the Lane Hospital and Out-Patient department.)

218. Set Clinic in Medicine.—Demonstration of patients from the ward and out-patient services of Lane Hospital.
1 hour (49 hours), third year, autumn, winter, and spring quarters. Fourth year, one and one-half quarters (Lane Hall) W 11:30–12:30
autumn, 44 (2 sections); winter, 28

219. Ward Work: Lane Hospital.—For section at Lane Hospital.
4 hours (64 hours) (HEWLETT, CHENEY, REED, DICKSON) MTWTh 8:30–9:30
autumn, 12 (2 sections)

220. Ward Work and Clinics: San Francisco Hospital.—Ward Clinics.
7 hours for 8 weeks (56 hours) (HILL, BARNETT, READ, KELLEY, KENNEY) MTWF 8:30–10, Th 11–12
autumn, 13

Set Clinic.
1½ hours for 16 weeks (24 hours) (HILL) F 10–11:30

221. Tuberculosis Clinic: San Francisco Hospital.—Ward Clinics for sections.
1 hour (16 hours) (CLARK) MS 9:30–10:30
autumn, 13

222. Neurology.—Ward work: Lane Hospital.
1 hour (16 hours) (SCHALLER) W 9:30–10:30
autumn, 14

223. Neurology Clinic: San Francisco Hospital.—Clinics.
1½ hours (24 hours) (WOLFSOHN) W 10:30–12
autumn, 13

224. Cutaneous Medicine.—Demonstration of patients, lectures and quizzes.
1 hour (16 hours) (ALDERSON) (R 311) T 11–12
autumn, 14

225. Out-Patient and Ward Work in Pediatrics and Cutaneous Medicine.—Practical course. Students taking this course will arrange at the same time for spending the necessary 12 hours in Obstetrics 208.
6 hours (84 hours) (Pediatrics: FABER, LAYMAN, SEITZ, DICKEY, and others); (Dermatology: ALDERSON and others) M 9:30–10:30, Th 9:30–11:30, F 10–11, S 9:30–11:30
autumn, (a) 12; (b) 12

226. Communicable Diseases.—Ward Clinics to sections at San Francisco Hospital.
2 hours (32 hours) (O'NEILL) MS 10–12
autumn, 13

227. Radiology.—Section work. Given to sections of one-fourth the class.
1 hour (11 hours), spring quarter (CHAMBERLAIN, NEWELL) (X-ray Department) TWThF 4:30–5:30
winter, 27

228. Psychiatry.—A weekly lecture preceded by a clinic.
1½ hours (49 hours), autumn, winter, and spring quarters (MEHRTENS, CUTTING) (Lane Hall) M 1:30–3
autumn, 27

229. History of Medicine.—In association with other departments a weekly lecture or recitation will be held. The aim will be to have each department present that portion of the history of medicine in which it

is most interested. The students will be assigned a certain amount of journal and other preparatory work.
1 hour (11 hours), winter quarter (OPHÜLS, STILLMAN, HEWLETT, SPALDING) (Lane Library) T 3:30–4:30
winter, 27

205a. Jurisprudence.
2 hours (22 hours), autumn quarter (R 311) M 3–4, F 2:30–3:30
autumn, 27

230. Jurisprudence.—The instruction in this course will be divided among the various departments, each one covering the points most essential to it. (Recent lectures in this course were delivered by Professors Cathcart, Whittier, and Vernier of the Stanford Law Department.)
1 hour (11 hours), autumn quarter (R 311) W 3:30–4:30
autumn, 27

ELECTIVE COURSES

The following elective courses in Medicine will be offered:

(1) Out-Patient Work in General Medicine.—One hour, three mornings a week; not more than two students on any morning.
(LEWIS) Hours to be arranged
autumn, 3

(2) Practical Work in Basal Metabolism and Electro-cardiography.—One hour, three mornings a week; not more than one student on a morning.
(HEWLETT) Hours to be arranged
autumn, 2

(3) Special Work in Pediatrics for Fourth-Year Students.
(FABER) Hours to be arranged

(4) Mental Rating in Neuropsychiatry.—One hour for third- or fourth-year students; limited to four students.
(MARSHALL) Afternoons, hours to be arranged

(5) Out-Patient Work in Neurological Clinic.—Limited to two students.
(MEHRTENS) Hours to be arranged
autumn, 1; winter, 2

(6) Treatment of Functional Neurosis.—One hour, sixteen hours for seniors.
(WOLFSOHN) Hours to be arranged

209. Diseases of the Endocrine Glands.—Clinics and recitations.
spring quarter (KAY) Hours to be arranged

214. Lectures on Pediatrics—Mental Deficiency.
spring quarter (RITTER) Hours to be arranged

(7) Radiology.—Special work in consultation with the division of Radiology. Either Therapy or Diagnosis may be followed.
(CHAMBERLAIN, NEWELL) Hours to be arranged
autumn, 1

(8) Roentgenoscopy.—Experience in actual use of the fluoroscope. Limited to two students per section, five sections.
(CHAMBERLAIN, NEWELL) Hours to be arranged
autumn, 1

(9) Bright's Disease and Diabetes.—An elective course in summer on Diagnosis and Treatment of Bright's Disease and Diabetes. Clinics and Laboratory work.
Hours to be arranged
autumn, 6; winter, 6

V. OBSTETRICS AND GYNECOLOGY

Alfred Baker Spalding, Professor.
George Burbank Somers, Clinical Professor.
[Ludwig Augustus Emge], William E. Stevens, Associate Clinical Professors (Urology).
[Henry Walter Gibbons], Karl Ludwig Schaupp, Henry Augustus Stephenson, Assistant Clinical Professors.
Albert Victor Pettit, Instructor.
Hans von Geldern, Clinical Instructor.
Harry E. Clay, Lewis Michelson, Millard R. Ottinger, Assistants.

[Students before graduation must pass in at least 146 hours of Obstetrics and 78 hours of Gynecology. Women students must register for Optional Courses 214 and 215 as a substitute for Surgery 218. Subjects will be given and hours arranged for thesis work.]

Second-Year Required Courses

201. Obstetrics, Histology.—Lecture one hour a week, laboratory work one hour a week.
2 hours (22 hours), winter quarter (von Geldern) (R 506) W 8:30–10:30
winter, 62

202. Obstetrics.—Normal pregnancy, labor and puerperium.
2 hours (22 hours), winter quarter (Stephenson) (R 506) TF 8:30–9:30
winter, 35

203. Gynecology, Pathology.—Laboratory two hours a week.
2 hours (22 hours), spring quarter (Spalding) (R 506) TTh 8:30–9:30
spring, 63

Third-Year Required Courses

204. Obstetrics.—Abnormal pregnancy and labor.
2 hours (22 hours), autumn quarter (Spalding) (R 506) MF 8:30–9:30
autumn, 28

205. Obstetrics.—Abnormal puerperium and obstetrical operations.
3 hours (33 hours), winter quarter (Spalding) (R 506) MThF 8:30–9:30
winter, 27

206. Ward Rounds or Women's Clinic.—One-third of class.
2 hours with 3 extra hours in Prenatal Clinic (25 hours), autumn, winter and spring quarters (autumn, Stephenson, Resident, and Senior Interne; winter, Pettit, Resident, and Senior Interne; spring, von Geldern, Resident, and Senior Interne) MF 9:30–10:30; M 2:30–3:30
autumn, 10; winter, 10; spring, 7

Fourth-Year Required Courses

(For morning work the fourth-year class is divided into two sections, one of which attends the San Francisco Hospital, the other the Lane Hospital.)

207. Manikin Exercises.—One-half of class.
1 hour (11 hours), autumn and winter quarters (autumn, von Geldern; winter, Pettit) (R 515) F 1:30–2:30
autumn, 14; spring, 13

208. Women's Clinic.—Three students for periods of three weeks.
12 hours' clinic work, autumn, winter, and spring quarters (autumn, Clay; winter, Pettit; spring, Schaupp) M 9:30–10:30; Th 9:30–11:30; F 10–11
autumn, 9; winter, 11; spring, 7

209. Gynecology.—Lecture one hour a week.
1 hour (33 hours), autumn, winter, and spring quarters (SPALDING) (R 506) W 1:30–2:30
autumn, 27; winter, 27; spring, 27

210. Operating Room: Lane Hospital.—One-third of class.
1 hour (11 hours), autumn, winter, and spring quarters (SPALDING) F 1:30–2:30
autumn, 13; winter, 27; spring, 13

211. Operating Room: San Francisco Hospital.—One-half of class. Students may elect either course 210 or course 211.
1 hour (11 hours), autumn, winter, and spring quarters (autumn and winter, SCHAUPP; spring, VON GELDERN) S 8:30–9:30
autumn, 13; spring, 14

212. Out-Patient Obstetrics.—Senior students must attend with the Junior obstetrical interne patients confined in their own homes for a period of two weeks. As prerequisite to this course, they must have witnessed at least ten hospital confinements during their junior year. Assignments for service will be made by the Resident on Obstetrics and Gynecology.
2 weeks (11 hours), autumn, winter, or spring quarter
autumn, 14; winter, 7; spring, 5; summer, 9

OPTIONAL COURSES

213. History Taking: Women's Clinic.—Limited to 2 students.
2 hours (22 hours), autumn, winter, and spring quarters (autumn, VON GELDERN; winter and spring, PETTIT) MF 8:30–9:30
winter, 1; spring, 3

214. Ward Rounds, Obstetrics or Gynecology and Operating Room, San Francisco Hospital.—Women students may substitute this for Surgery 218.
2 hours for 8 weeks (16 hours), autumn and spring quarters (autumn, SCHAUPP; spring, VON GELDERN) T 10–11; S 8:30–9:30
autumn, 2; spring, 2

215. Women's Clinic: Cystoscopy.—Required of women students as part substitute for Surgery 218.
1 hour (11 hours), autumn and winter quarters (STEVENS) T 8:30–9:30
autumn, 4; winter, 3; spring, 1

VI. PATHOLOGY

WILLIAM OPHÜLS, JEAN REDMAN OLIVER, Professors.
ERNEST M. HALL, Assistant.

(The following courses in Pathology are required of medical students: Pathology 201, two quarters; Pathology 203, three quarters; Pathology 204, one and one-half quarters.)

COURSES FOR SECOND-YEAR MEDICAL STUDENTS

201. General Pathology.—A course of lectures, demonstrations, and laboratory work which covers disturbances in circulation, regressive and progressive tissue changes, inflammation, granulomata and tumors. The study of human material will be supplemented by experiments. One lecture of 1 hour and 2 laboratory periods of 2½ hours each per week two quarters. Prerequisites: Histology, Bacteriology.
6 hours (66 hours), winter and spring quarters (OPHÜLS, OLIVER) (R 405) M 8:30–9:30; MF 1:30–4
winter, 35

For Third-Year Medical Students

203. Special Pathology.—A course of demonstrations of fresh and preserved gross and microscopical specimens, illustrating selected chapters on Human Pathology. Part of the time will be devoted to the technique of post-mortem examinations. Diagnostic work will be done in the Spring Quarter. Prerequisites: General Pathology.

4 hours (132 hours), autumn, winter, and spring quarters (Ophüls, Oliver) (Morgue, Lane Hospital) W 2:30–4:30; (R 405) WS 8:30–9:30
autumn, 29; winter, 28

For Fourth-Year Medical Students

204. Clinico-Pathological Demonstrations.—One and one-half quarters required. During the Summer Quarter this will be supplemented by demonstrations of microscopical specimens at some convenient hour.

1 hour (16 hours) (Oliver) (Morgue, Lane Hospital) M 11:30–12:30
autumn, 14

205. Research Work in the Pathological Laboratory.—Students wishing to do special work in the Pathological Laboratory should have finished course 201. They should consult with the Executive of the Department in regard to the selection of a proper subject for investigation. As the laboratory accommodations are limited, students must do a reasonable amount of work, otherwise the privilege will be withdrawn. A deposit of $10 will be required to cover such material as is used by the student in the course of his work. Such part of this as is not drawn against will be refunded on the completion of the work undertaken. Work may be undertaken during any of the four quarters. The same regulations apply to work on theses or for advanced degrees in the department, except that in the latter case the students also should have finished course 203.

During the Summer Quarter a special effort will be made to accommodate properly prepared undergraduates or graduates who wish to do experimental work in Pathology.

(Ophüls, Oliver)

VII. PHARMACOLOGY AND THERAPEUTICS

Paul J. Hanzlik, Professor.
Floyd De Eds, Maurice L. Tainter, Instructors.
Russel van Arsdale Lee, Dwight Emerson Shepardson, Clinical Instructors in Therapeutics.
Elizabeth Presho, Assistant in Research.

Second-Year Required Courses

201. Chemical Pharmacology.—This course includes tests for plant constituents and important drugs, the principles of pharmacy and prescription writing, general toxicology, the physical and chemical basis of pharmacology, excretion, antiseptics, methods of administering drugs and reactions with tissues and unicellular organisms. The work consists of laboratory exercises, demonstrations, class conferences and lectures.

Didactic, 16 hours; laboratory, 32 hours; total, 48 hours; given during the first 8 weeks of the winter quarter (De Eds, Tainter)
Didactic MW 10:30–11:30; Lab. TTh 1:30–3:30
winter, 36

202. Experimental Pharmacodynamics.—The course consists of demonstrations and class experiments on amphibia and mammals illustrating the actions of drugs and methods of pharmacological experimentation. The results are discussed and systematized in class conferences, different methods of attaining the same or related objects being explained and practical applications indicated. The work of courses 201 and 202 is fundamental and prerequisite to the other courses of the department.

Conference, 24 hours; laboratory, 48 hours; total, 72 hours; given during the last 2 weeks of the winter and all of the spring quarter (Hanzlik, DeEds, Tainter) Lab. TTh 1:30–3:30; Conference, MW 10:30–11:30

203. Systematic Pharmacology.—The course covers locally acting drugs.

Recitation, 10 hours; given during the spring quarter (De Eds) S 11:30–12:30

Third-Year Required Courses

204. Systematic Pharmacology.—This course deals with predominant systemic actions. Instruction is given by lectures, demonstrations, and recitations and treats of the experimental basis, toxicity and clinical actions, uses and dosage of the more important drugs.

60 hours, autumn and winter quarters (Hanzlik) MW 1:30–2:30; F 11:30–12:30

autumn, 29; winter, 27

205. General Therapeutics.—This course consists of a systematic presentation of the uses of drugs and other agents from the standpoint of disease, and consists of lectures, recitations, and class drills in prescription writing.

33 hours, spring quarter (Shepardson) MW 1:30–2:30; F 11:30–12:30

Elective Courses

206. Research in Pharmacology and Therapeutics.—Open throughout the year to students for thesis and to graduates with proper qualifications and special interest in these subjects. Work may be done independently or under supervision in the department. For students not less than four hours per week.

autumn, 1; winter, 1

207. Journal Club.—One hour weekly throughout the year for presentation and discussion of oral and written reports on literature pertaining to pharmacology, etc.

autumn, 2; winter, 2

208. Clinical Therapeutic Conference.—One hour weekly throughout the year for fourth-year students. The work consists of conferences on therapeutic methods and results at the bedside; given in the wards of San Francisco Hospital. Limited to six students.

(Lee) Wednesdays

autumn, 6

VIII. PHYSIOLOGY

Ernest Gale Martin, Professor.
Frank Walter Weymouth, Associate Professor.
James Percy Baumberger, George Daniel Shafer, James Rollin Slonaker, Assistant Professors.

[See courses 103, 104, 105, and 207 outlined on pp. 303–304.]

IX. PUBLIC HEALTH AND PREVENTIVE MEDICINE

ERNEST CHARLES DICKSON, Acting Executive.
MORTON RAYMOND GIBBONS, HARRY REEVES OLIVER, CLARENCE OLDS SAPPINGTON, Lecturers.

201. The Principles of Public Health and Preventive Medicine.—This course of lectures consisting of 66 hours includes discussions of the various problems of Public Health and Preventive Medicine as they affect the medical practitioner. They are given by members of the regular teaching staff and by others who are actively interested in the various aspects of the subject.

2 hours (66 hours) (R 311)
9th quarter, M 4:30–5:30, Th 2:30–3:30; 10th quarter, M 3–4, Th 3:30–4:30; 11th quarter, M 3–4, Th 3:30–4:30
autumn, 29; winter, 28

202. Tropical Medicine.—This course of lectures will make special reference to medical practice in the United States, emphasizing mass control and common methods of spread of tropical diseases.

2 hours (22 hours) (R 311) (REED, WYCKOFF)
10th quarter, M 4–5, W 3:30–4:30

203. Parasitology.—This laboratory course of 22 hours supplements lecture course 202.

2 hours (22 hours) (Clinical Pathology Laboratory)
(WYCKOFF, REED) 10th quarter, F 3:30–5:30

204. Demonstrations and Conferences.—This course includes practical demonstrations and conferences dealing with such problems as the laboratory diagnosis of infectious diseases, vaccination, immunization, serum therapy, etc.

2 hours (22 hours) (DICKSON, FABER, and others)
11th quarter, F 2:30–4:30

205. Sanitary Survey.—Each student is required to make a sanitary survey of a municipality or an epidemiological investigation of an outbreak of infectious disease and present a report prior to the beginning of the twelfth quarter. The subject of the survey should be selected by the student but must be approved by the acting executive of the department.

X. SURGERY

STANLEY STILLMAN (Executive), FRANK ELLSWORTH BLAISDELL, JOHN FRANCIS COWAN, LEONARD WHEELER ELY, EMMETT RIXFORD, Professors.

LEO ELOESSER, PHILIP KINGSNORTH GILMAN, ALBERT BROWN MCKEE, RUFUS LEE RIGDON, EDWARD CECIL SEWALL, Clinical Professors.

EDWARD B. TOWNE, Associate Professor.

JOHN ADOLPH BACHER, HARRINGTON BIDWELL GRAHAM, HARRY LESLIE LANGNECKER, HARVARD YOUNG MCNAUGHT, CAROLINE B. PALMER, Associate Clincal Professors.

HANS BARKAN, JOHN ROBERT BURROWS, EDMUND BUTLER, JAMES ROOT DILLON, ARTHUR L. FISHER, SYLVAN L. HAAS, Assistant Clinical Professors.

REA ERNEST ASHLEY, OTTO BARKAN, SIGURD VON CHRISTIERSON, HAROLD AUGUSTUS FLETCHER, MERTON JAMES PRICE, LLOYD ROBINSON

Reynolds, Wilber Swett, Chester Howard Woolsey, Clinical Instructors.

Loren R. Chandler, Hubert W. Dudley, Samuel A. Goldman, Gordon F. Helsley, Robert S. Irvine, J. Minton Meherin, Merrill C. Mensor, Robert A. Ostroff, [Dohrmann K. Pischel], Lorruli Anna Rethwilm, August Henry Rosburg, Edward Salomon, Frank Sheehy, Assistants.

Frank R. Girard, George W. Hartman, Henry A. L. Ryfkogel, Alfred Jacob Zobel, Lecturers.

Ferd W. Callison, Hiram B. Duncan, Assistant Lecturers.

Divisions

OPHTHALMOLOGY GENITO-URINARY DISEASES ORTHOPEDIC SURGERY
OTOLOGY, RHINOLOGY, AND LARYNGOLOGY

General Plan of Instruction

Instruction in the Department of Surgery commences in the fifth quarter in the Medical School in San Francisco.

The course in Principles of Surgery (Surgery 201) is a prerequisite to all of the courses in this department.

On completion of courses 201, 202, 203, and after satisfactory examination, students will be admitted to third-year standing.

Students will be admitted to fourth-year standing after having completed courses 204, 205, 206, 207, 208, 209, 210, and having passed satisfactory examinations in the same.

Before entering the fifth medical year, students of fourth-year standing are required to complete the following prescribed courses: 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, and to have passed satisfactory examinations in the same.

Courses for Second-Year Medical Students

201. Principles of Surgery.—Recitations, demonstrations, and laboratory work, utilizing clinical and pathological material from the out-patient clinics and Lane Hospital, and preparations from the museum and laboratory of Surgical Pathology.

3 hours (33 hours), winter quarter (Towne)
(R 506 and Surgical Clinic) MWF 11:30–12:30

winter, 36

202. Fractures and Dislocations.—Recitations, study of X-ray plates, and demonstrations of fractures and dislocations. All the important fractures and dislocations are produced on the cadaver and subsequently demonstrated by dissection.

2 hours (22 hours), spring quarter (Blaisdell)
(Anatomical Amphitheatre) W 8:30–10:30

203. Surgical Diseases of Extremities.

1 hour (11 hours), spring quarter (Cowan)
(R 506 and Surgical Clinic) M 11:30–12:30

For Third-Year Medical Students

204. Surgical Diseases of the Abdomen.

2 hours (32 hours), second half of winter and spring quarters
(Stillman or Cowan) (Lane Hall) TTh 4–5

205. Surgical Diseases of Head, Neck, and Thorax.
2 hours (32 hours), autumn and one-half of winter quarter
(Rixford, Towne) (Lane Hall) TTh 4:30–5:30
autumn, 29

[Note.—For courses 206 and 207, the third-year class will be divided into two sections, one of which will meet at the Men's Surgical Ward, and one in the Surgical Out-Patient Clinic alternately.]

206. Surgical Clinic: Dispensary.
1 hour (33 hours), autumn, winter, and spring quarters (Stillman)
(Out-Patient Clinic) TTh 10:30–11:30
autumn, 29; winter, 28

207. Surgical Wards: Lane Hospital.
1 hour (33 hours), autumn, winter, and spring quarters (Towne)
TTh 10:30–11:30
autumn, 29; winter, 28

[ANESTHETICS: In connection with the clinical work, students are assigned in rotation, so that each one shall administer 10 anesthetics under the supervision of Dr. Caroline Palmer or Dr. John Burrows, Anesthetists to Lane Hospital. Dr. Palmer also gives a course of three lectures on the administration of anesthetics. (3 hours, autumn quarter, first three Thursdays, 11:30–12:30)]

209. General Surgical Pathology and Tumors: Surgical Laboratory.
1½ hours (48 hours), autumn, winter, and spring quarters (Towne)
(R 506) T 2:30–4
autumn, 29; winter, 28

210. Introductory Course in Orthopedic Surgery.
2 hours (22 hours), spring quarter (Ely, Langnecker)
(Lane Hall) TTh 1:30–2:30

For Fourth-Year Medical Students

[For morning work, the fourth-year class is divided into two sections, one of which attends the San Francisco Hospital, while the other attends the Lane Hospital.]

211. Surgical Clinic: Surgical Amphitheatre.
1 hour (16 hours) (Gilman) S 8:30–9:30
autumn, 14

212. Set Clinic: Surgical Amphitheatre.
1 hour (16 hours) (Stillman) Th 11:30–12:30
autumn, 14

213. Out-Patient Clinics: Dispensary.
1 hour (16 hours) (Gilman) MW 10:30–11:30
autumn, 14

214. Wards of Lane Hospital.
1 hour (16 hours) (Cowan) MW 10:30–11:30
autumn, 14

215. San Francisco Hospital.—Ward Clinics.
4 hours for 8 weeks (32 hours) (Rixford, Eloesser) MTWF 8:30–9:30
autumn, 13

Set Clinic.
2 hours for 16 weeks (32 hours) (Rixford, Eloesser) Th 9–11
autumn, 13

216. Surgical Anatomy and Operative Surgery: Amphitheatre at Medical School.
2 hours (22 hours), autumn quarter (Blaisdell) TF 3:30–4:30
autumn, 26

217. Orthopedic Surgery: Dispensary and Surgical Amphitheatre.
3 hours (48 hours) (Ely, Fisher) T 9:30–11; F 11–12:30
autumn, 14

218. Genito-Urinary Surgery: Surgical Amphitheatre.
1½ hours (24 hours) (Rigdon) F 8:30–10
2 hours for 8 weeks (16 hours) (Dillon) (San Francisco Hospital) T 10–12
autumn, 12

219. Ophthalmology.
1 hour (33 hours), autumn, winter, and spring quarters
(Barkan) (Lane Hall) T 1:30–2:30
1 hour (33 hours), autumn, winter, and spring quarters
(McKee) (Dispensary) T or Th 2:30–3:30
autumn, 27; winter, 27

220. Otology, Rhinology, and Laryngology.
1 hour (33 hours), autumn, winter, and spring quarters
(Sewall) (R 311) Th 1:30–2:30
1 hour (33 hours), autumn, winter, and spring quarters (Bacher, McNaught)
(Dispensary) T or W and Th 2:30–3:30
autumn, 27; winter, 27

Elective Courses

The following elective courses in Surgery will be offered:

208. Set Clinic.—Surgical Amphitheatre.
1 hour (22 hours), autumn, winter, and spring quarters (Stillman, Cowan) Th 11:30–12:30
autumn, 7; winter, 6

218a. Genito-Urinary Surgery.—Lectures only.
1 hour (11 hours), spring quarter (Dillon) Hours to be arranged
autumn, 11

220a. Work in Ear, Nose, and Throat Clinic.—Limited to four students.
autumn, winter, spring, and summer quarters (McNaught, Bacher) Hours to be arranged

221. Surgery.—Operative Clinics. Operative Clinics are held throughout the year in the Surgical Amphitheatre.
autumn, winter, and spring quarters, T 8:30 (Towne); Th. 8:30 (Cowan); S 8:30 (Gilman)
summer quarter, TTh 10 (Stillman); S 8:30 (Gilman or Towne)
winter, 5

222. Out-Patient Surgical Clinic.—Work in these clinics may be arranged for by limited numbers of students during any quarter.
autumn, 3; winter, 9

223. Emergency Surgery.—Opportunity is offered to small groups of fourth-year medical students to take work in Emergency Hospitals during the Spring Quarter, two afternoons a week, from 4 to 6:30. Students wishing to take this work should apply to Dr. E. Butler, the Chief of the Emergency Service, at 135 Stockton Street, San Francisco. Students who expect to interne at the San Francisco Hospital are strongly advised to take this course as preparation for their work in the Emergency Hospitals.

Special Courses

Special courses may be arranged for limited numbers of graduates in Medicine in the laboratory of Surgical Pathology and in the various Out-Patient Clinics and Hospitals. Such students may register for advanced degrees or as special workers.

A special course in the administration of anesthetics is offered to a limited number of graduates in Medicine. The course covers six months. Fee, $50.
(Palmer)

PRE-NURSING CURRICULUM

The Pre-Nursing Curriculum is designed primarily for those who wish to prepare themselves for administrative, teaching, social service, or public health work. The curriculum consists of three years' work at Stanford University and two years' work at the Stanford School of Nursing.

Curriculum

FIRST YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
Subject	Units	Subject	Units	Subject	Units
Citizenship	4	Citizenship	4	Citizenship	4
*Chemistry 7	2	Chemistry 9	2	Chemistry 4	3
Language	3	Language	3	Language	3
Electives	6	Electives	6	Electives	5

SECOND YEAR

Language or Literature	3	English 2	3	English 2	3
History	3	History	3	History	3
Zoology 1	5	Biology 3	3	Zoology 106 (Embry.)	5
Electives	4	Electives	6	Electives	4

THIRD YEAR

Physiology 101	5	Physiology 102	5	Bacteriology 102	5
Psychology 51*a*	3	Psychology 51*b*	3	Anatomy (Special)	5
Electives	7	Electives	7	Electives	5

This schedule presupposes entrance credit of 2 units in a foreign language, 1 unit in Chemistry, and 1 unit in History.

*Students offering no entrance credits in Chemistry are required to take courses 1, 2, 3, and 4 (12 units), instead of 4, 7, and 9 (7 units).

Some suggested electives are: Economics 2 (Elementary Sociology); Economics 22 (Labor Problems); Economics 103 (Care of Dependents); Economics 105 (Crime as a Social Problem); Economics 216 (Immigration); Education 175 (Education and Modern Social Problems); Zoology 116 (Animal Genetics); Physical Education 1 (Personal Hygiene); Political Science 2 (State and Local Government); Political Science 112 (Municipal Administration); Psychology 55 (Experimental Psychology); Public Speaking 4 (Vocal Expression); Public Speaking 5 (Reading Aloud); Law 1 (Introductory Course).

Graduates of schools of nursing affiliated with an institution of collegiate rank may be granted, on recommendation of the Pre-Nursing Committee, a maximum advanced credit of forty-five units, provided they have also fulfilled the requirements of graduation and recommendation from an accredited high school.

Graduates of accredited schools of nursing not affiliated with an institution of collegiate rank should have, in addition to the high school requirements, one year of successful administrative or educational experience.

To qualify for the A.B. degree, students receiving advanced standing on the above mentioned credentials, will be required to fulfill both the Lower Division requirements and those of the major department in which they ultimately register. (For details of requirements see Information Bulletin and Announcement of Courses.)

Pre-Nursing students entering with advanced standing from other universities are required to take a minimum of 45 units of resident work at Stanford University. While this minimum of 45 units usually pre-

supposes a residence of three University quarters, the completion of the collegiate part of the Pre-Nursing Course in this minimum of time is possible only for those students who have fulfilled the requirements of the first six quarters, including the Lower Division requirements.

Students intending to take this work should confer with Professor C. S. Stoltenberg, Stanford University, or with Professor Maude Landis, Superintendent of Nurses, Stanford Hospital, San Francisco.

MEMORIAL CHURCH

The Reverend David Charles Gardner, Chaplain.
Warren D. Allen, Organist.

Memorial Church stands in the center of the inner quadrangle group. facing the main entrance. It is of modified Moorish-Romanesque architecture, in the form of a cross with rounded ends. The extreme length is one hundred and ninety feet, the extreme width, one hundred and fifty feet. Exteriorly the finish is like that of the other quadrangle buildings except for the mosaics of the façade, the central feature being a striking representation of the Sermon on the Mount. Interiorly the walls are buff sandstone, with tooled face, relieved by elaborate carved designs and fifteenth century mosaics of great beauty. The features of the apse are the marble altar, the stained glass windows representing the Nativity, the Crucifixion, and the Ascension, and the mosaics covering the wall surface. Behind the altar is a replica of Cosimo Rosselli's Last Supper, from the Sistine Chapel at Rome. To the right and left, running to the arch of the apse, are long panels, a *gloria dei angeli* surmounted by reproductions in mosaic of Michael Angelo's Prophets. The cove ceiling is also done in mosaics representing angels with trumpets. The nineteen stained glass windows of nave, transept, and apse illustrate the Life of Christ. The windows of the clerestory contain single figures of Old and New Testament characters, and the mosaics depict Old Testament scenes. The seating capacity of the church, including galleries, is about eighteen hundred.

Memorial Church is unsectarian, without formal organization, but linked to historic Christianity by its ministry and sacraments. The services are informal and varied, conserving the great principles of Christian worship.

Services

Daily Chapel, with address, 7:50 a. m.
Sunday, Divine Worship and Sermon, 11 a. m. (Holy Communion as announced.)

Organ Recitals

Sunday, 4 p. m.; Tuesday, 4:15 p. m.; Thursday, 4:15 p. m.

MILITARY SCIENCE AND TACTICS

WILLIAM D. GEARY, Major Field Artillery, Professor.
JOHN M. JENKINS, JR., Captain Field Artillery, Assistant Professor.
MOSES W. PETTIGREW, Captain Field Artillery, Assistant Professor.

A Field Artillery unit of the Reserve Officers' Training Corps is maintained for the purpose of fitting students to become reserve field artillery officers while they are taking their regular college courses, thus enabling them, if called into active service during a national emergency, to best perform the military duties for which their capabilities and training as college graduates fit them in the service of their country.

The course is planned to cover a period of four academic years. Any student electing the course is expected to do so with the idea that he will complete the first two years' basic course and, if possible, that he will elect and complete the last two years' advanced course; and that, upon its satisfactory completion, he will accept from the President of the United States, a commission as second lieutenant of Field Artillery in the Officers' Reserve Corps. If the college course is completed in three years, the commission may be awarded at that time. The obligation to complete the basic course may be cancelled for good and sufficient reasons approved by the head of the department and the President of the University. The advanced course is open to selected students who satisfactorily complete the basic course. They are required to attend one summer instruction camp of six weeks' duration, normally at the end of the first year of the advanced course. Credit is given for R. O. T. C. work taken at other institutions.

All students enrolled in the R. O. T. C. are furnished uniforms and equipment without cost to themselves. While attending the summer instruction camp the government defrays all expenses, including food, clothing, and mileage at the rate of five cents per mile to and from camp. The camp is a period of interesting and instructive work with the physical and moral development of the students well provided for, and, in addition, is valuable in its broadening effect on the student, who is associating with men from other leading American universities. Men taking the advanced course receive in addition to the above, commutation of subsistence at the rate of $9 per month for two years and pay while at the required camp. (Five units of credit will be given for satisfactory completion of the camp.)

The United States Government places at the disposal of the university for instruction purposes the necessary number of horses, horse equipment, personal equipment, one complete 75-millimeter battery, fire control and reconnaissance instruments, motor equipment, including caterpillar tractors, trucks, and motorcycles.

FIELD ARTILLERY COURSE

FIRST-YEAR BASIC (FRESHMAN)

10. Practical Work.—(Three hours per week.) The fundamentals of Military Science, including organization and administration of a battery; military hygiene; first aid and sanitation; customs of the service; mili-

tary courtesy and discipline; morale; psychology of handling men and leadership; standing gun drill; school of the soldier, squad and battery dismounted. Duties of the cannoneer in mounted drills and maneuvers.
1 unit, autumn quarter
autumn, 90

[NOTE.—This course, with the other practical courses, viz: 12, 13, 21, 23, 25, and 4p, fulfills the college requirement of six courses of military or physical training.]

11. Materiel.—(Two hours per week.) Guns: types, construction, mechanical principles, principles of design. Field artillery carriages: design, construction, tools, accessories, equipment, methods of carrying same; disassembling and assembling various parts of gun material: their care, operation, nomenclature, maintenance, lubrication, cleaning; sights, quadrants, fuzesetters, fire control instruments; principle of design, nomenclature, operation, adjustments, care; ammunition: powders, explosives, detonators, primers, projectiles; fuzes: their description, manufacture, construction, care and use.
2 units, winter quarter
winter, 110

12. Practical Work.—(Three hours per week.) Duties of the cannoneer in the firing battery; practical work in materiel; gunner's examination (practical). Students qualifying as expert first-class gunners, first-class gunners and second-class gunners are entitled to wear the insignia for same during the remainder of the course.
1 unit, winter quarter
winter, 97

13. Practical Work.—(Three hours per week). Use of fire control instruments, including the solution of practical problems with same; determination of firing data. Duties of the cannoneers in mounted drills and maneuvers.
1 unit, spring quarter
spring, 86

SECOND-YEAR BASIC (SOPHOMORE)

20. Horses and Stable Management.—(Two hours per week.) The horse: care, conditioning, and training; care and management in the field; forage and animal nutrition; types of artillery horses, breeds and blood lines; shoeing, grooming, stable management, and exercise; hippology; anatomy, physiology, points, conformation, and age of horse; wounds, simple diseases and their treatment; veterinary medicines; entraining and detraining, care en route.
2 units, autumn quarter
autumn, 44

21. Practical Work.—(Three hours per week.) Equitation; saddling and bridling, adjustments; acquiring a firm seat at all gaits; use of aids. Driving and draft, battery drills and maneuvers mounted.
1 unit, autumn quarter
autumn, 45

[NOTE.—On account of a rearrangement of the subjects in this course the sophomores will take during the winter quarter 1924–25, courses 11 and 12 above.]

24. Artillery Minor Tactics.—(Two hours per week.) Artillery organization. Battery and battalion details and their use in the recon-

naissance, selection and occupation of positions. The Infantry-Artillery team. The artillery combat order. Use of relief map. Map problems.
2 units, spring quarter
spring, 132

25. Practical Work.—(Three hours per week.) Equitation to include jumping. Driving and draft, battery drills and maneuvers mounted.
1 unit, spring quarter
spring, 45

FIRST-YEAR ADVANCED (JUNIOR)

130. Field Artillery Firing.—(Three hours per week.) Ballistics, pressures, and velocities; the trajectory and its elements, trajectory problems; accuracy of fire; dispersion; range tables and corrections; shifts (transport) of fire; time fire; manipulation of the point of burst; the shrapnel cone; percussion fire; angle of incidence, remaining velocity, ground conditions.
3 units, autumn quarter
autumn, 40

131. Practical Work.—(Three hours per week.) Reconnaissance, including composition and use of battery, battalion and regimental special details; reconnaissance selection and occupation of battery positions; training of scouts and agents; battery emplacements; camouflage. Driving and draft, battery drills and maneuvers, mounted.
1 unit, autumn quarter
autumn, 32

132. Field Artillery Firing (continued).—(Three hours per week.) Commands, methods of fire, methods of laying; determination of firing data, principles of fire; conduct and observation of fire: terrain board, blackboard, sand table, and smoke bomb firing; percussion precision firing and practical use of range tables; lateral observation.
3 units, winter quarter
winter, 28

133. Practical Work.—(Three hours per week.) Conduct of fire with blackboard, terrain board, smoke bomb.
1 unit, winter quarter
winter, 36

[On account of a rearrangement of subjects the juniors took during the Spring Quarter 1924–25 course 24.]

135. Practical Work.—(Three hours per week.) Pistol practice, driving and draft, battery drills and maneuvers mounted.
1 unit, spring quarter
spring, 49

SECOND-YEAR ADVANCED—(SENIOR)

140. Military History and Policy of the United States.—(Three hours per week.) A critical study of our military policy, and a military survey of the most important campaigns and battles of the United States (including the World War). Military operations and strategy.
3 units, autumn quarter
autumn, 16

[NOTE.—This course is given by the History Department as History 74.]

141. Practical Work.—(Three hours per week.) Acting as assistant instructors for the other classes. Battery drill.
1 unit, autumn quarter
autumn, 20

142. Organization and Tactics.—(Three hours per week.) Fundamentals of the organization and tactics of the army and its various arms and elements; field artillery and organization, tactics, operations, employment, information, ammunition, supply; functions of various calibres of field artillery and principles involving the type used; divisional, corps and army artillery and functions of each; staff organizations, functions and duties; field orders, logistics; map maneuvers.
3 units, winter quarter
winter, 24

143. Practical Work.—(Three hours per week.) Training as instructors in equitation.
1 unit, winter quarter
winter, 17

144. Military Law.—(Three hours per week.) History, authority, sources; procedure of courts-martial; rules of land warfare; military government; armistices, conventions, treaties.
3 units, spring quarter
spring, 23

145. Practical Work.—(Three hours per week.) Acting as assistant instructors for the other classes. Battery drill.
1 unit, spring quarter
spring, 19

4p. Polo.—(Three hours per week.) Optional. Open to all students who have completed 23.
1 unit, autumn, winter, and spring quarters
autumn, 29; winter, 32; spring, 57

SUMMER COURSES

Summer Camp for regularly enrolled students taking the Military Science course. Camp of six weeks' duration.
5 units, summer quarter
summer, 21

(Summer courses are given at the University by arrangement.)

MINING AND METALLURGY

THEODORE JESSE HOOVER, JAMES MACDONALD HYDE, Professors.
WELTON JOSEPH CROOK, WALDEMAR FENN DIETRICH, FREDERICK GEORGE TICKELL, Associate Professors.
THOMAS B. CROWE, JOHN FRANKLIN DODGE, ROY PARMELEE MCLAUGHLIN, LOUIS DAVID MILLS, HARRY WHEELER MORSE, Lecturers.

The Department of Mining and Metallurgy provides (*a*) a four-year pre-mining course leading to the degree of Bachelor of Arts; and (*b*) a two-year postgraduate course in mining, metallurgy, or petroleum, leading to the degree of Engineer.

I. ADMISSION TO THE PRE-MINING DEPARTMENT

The entrance requirements are those defined by the University for admission to the Lower Division.

II. Pre-Mining Curriculum, Lower Division

Students intending to make mining, metallurgical, or petroleum engineering a profession will register in the Lower Division, and complete two full years' work comprising the following curriculum:

Freshman Year

Autumn Quarter		Winter Quarter		Spring Quarter	
Applied Math. 1*a*	5	Applied Math. 1*b*	5	Applied Math. 2*a*	5
Chemistry 7	2	Chemistry 9	2	Chemistry 4	3
Citizenship 1	4	Citizenship 2	4	Citizenship 3	4
Language	3	Language	3	Language	3
Engineering 1	1	Engineering 2	1		
Total	15	Total	15	Total	15

Sophomore Year

Applied Math. 2*b*	5	Geology 103	3	Chemistry 20	6
History	3	History	3	History	3
English 2	3	Engineering 3	4	English 2	3
Geology 1*a*	5	Geology 142	4	Geology 143	4
		Mining and Met. 1	1		
Total	16	Total	15	Total	16

III. Pre-Mining Curriculum, Upper Division

Upon completion of this Lower Division work students will then register in the Department of Mining and Metallurgy and complete the following pre-mining curriculum. Special students are not admitted to registration in this department. It will be noticed that in the Spring Quarter of the Junior Year a definite line of differentiation is made in the courses of study in mining, metallurgical, and petroleum engineering respectively. Students who do not desire to choose a definite line of work as early as the Spring Quarter of the Junior Year are advised to take the courses listed under the head of Mining. These courses are arranged so that there is room for a limited amount of elective work; it is recommended that such courses as Economics 3, 10, and 20, Engineering 106 and 110, M. E. 121, E. E. 102, 122, 103, 123, Chemistry 101, and Mineralogy 225, be chosen as electives:

Junior Year

Autumn Quarter		Winter Quarter	
Geology 121	4	Physics-Statics 11	1
Civil Engineering 20	5	Applied Mathematics 3*a*	5
Mining and Metallurgy 105	3	Chemistry 111, 112	5
Electives	3	Electives	4
Total	15	Total	15

Spring Quarter

Mining		Metallurgy		Petroleum	
Physics-Dynamics 12	1	Physics-Dynamics 12	1	Physics-Dynamics 12	1
Physics-Heat 13	4	Physics-Heat 13	4	Physics-Heat 13	4
Applied Math. 3*b*	5	Applied Math. 3*b*	5	Applied Math. 3*b*	5
Geology 163	4	Mech. Engineering 12	3	Mech. Engineering 12	3
Elective	1	Chemistry 153	3	Electives	2
Total	15	Total	16	Total	15

SUMMER QUARTER

Geology 108 8		Geology 108 8
Geology 109 7	(None in Metallurgy)	Geology 109 7
Total 15		Total 15

SENIOR YEAR

AUTUMN QUARTER

Physics-Electricity 14 4	Min. & Met. 101 4	Physics-Electricity 14 4
Min. & Met. 101 4	Chem. 101 5	Min. & Met. 101 4
Mech. Eng. 11 or 12 3	Mech. Eng. 122 3	Geology 144 2
Electives 4	Electives 3	Mech. Eng. 122 3
		Electives 2
Total 15	Total 15	Total 15

WINTER QUARTER

Physics-Light 10 2	Physics-Light 10 2	Physics-Light 10 2
Min. & Met. 102 5	Min. & Met. 102 5	Min. & Met. 103, or
Min. & Met. 103 3	Min. & Met. 106 5	Econ. Geol. 162 3
Min. & Met. 106 5	Electives 3	Chemistry 127 5
		Geology 145 2
		Electives 3
Total 15	Total 15	Total 15

SPRING QUARTER

	Geology 163 4	
	Physics-Electricity 14 4	
	Electives 7	
(None in Mining)	Total 15	(None in Petroleum)

IV. Pre-Mining Degree

Students who complete the above four-year pre-mining curriculum in a satisfactory manner will be granted the degree of Bachelor of Arts.

V. Pre-Mining Courses

The seven courses described below are the only ones given in this department which are open to undergraduates:

1. History of Mining.—Lectures. A general survey of the metal supply of peoples and its effect on their progress in the arts, science and culture; relation of mining and metallurgy to other industries, and to civilization. No prerequisite.

1 unit, winter quarter (Hoover) T 9

101. Principles of Mining.—Lectures. Covering the whole subject, giving a comprehensive view of the industry, and serving as an outline for the orderly development of professional studies; prospecting; development; equipment; operation. Prerequisite: Geology 1*a*.

4 units, autumn quarter (Dietrich, Hoover, Crook) MTWTh 10
autumn, 26

102. Principles of Metallurgy.—Lectures. Elementary discussion of broad principles of ore dressing and metallurgical operations. Preparatory to more detailed treatment in later courses; crushing, classification, concentration, hydrometallurgy, pyrometallurgy. Prerequisites: Chemistry 20, Geology 121 or Chemistry 101.

5 units, winter quarter (Hyde) MTWThF 10
winter, 8

103. Principles of Petroleum Mining.—Lectures. Covers the whole subject of petroleum mining, giving the student a comprehensive view of the industry, and serves as an outline for the orderly development of professional studies. Properties, origin, accumulation, and occurrence of petroleum; valuation, development, production, storage, transportation, refining, and utilization. Prerequisites: Geology, 1*a*, 142, and 143.
3 units, winter quarter (TICKELL) MWF 9
winter, 27

104. Mine Rescue and First Aid.—Laboratory. In coöperation with the U. S. Bureau of Mines. No prerequisite.
1 unit, spring quarter (DIETRICH) By arrangement

105. Pyrometallurgy, Iron and Steel.—Lectures. The principles, practice, and cost of producing iron and steel; Theory and practice of heat treatment; Introduction to metallography of steel; Theory, use, and production of alloy steels; Non-ferrous metals and alloys in Engineering construction. Prerequisites: Chemistry 7, 9, and 4.
3 units, autumn quarter (CROOK) MWF 8
autumn, 104

106. Assaying.—Laboratory and Lectures. Determination of gold and silver in ores and metallurgical products. Prerequisites: Chemistry 111 and 112, Geology 121.
5 units, winter quarter (HYDE, CROOK) MTWThF 1:05
winter, 10

VI. GRADUATE DIVISION

Students who have completed the four-year pre-mining curriculum as given on pp. 281–282 and have received the degree of Bachelor of Arts from the University (or have had degrees and adequate training at some other university which, in the opinion of the faculty, is equivalent thereto) will, upon passing a satisfactory examination, be admitted as candidates for the degree of Engineer. Two years' residence in the University and ninety units of approved work, of which at least forty-five units must be selected from the following graduate courses, together with the presentation of a suitable thesis, complete the requirements for the degree of Engineer.

VII. GRADUATE COURSES

The following courses are open to graduate students in any department in the University. Some concessions in prerequisites are possible for those who are not candidates for the degree of Engineer in Mining and Metallurgy. None of the following courses are open to undergraduate students.

ECONOMICS OF MINING

201. Mine Valuation.—Lectures and Problems. General considerations; sampling and measurement; widths and volumes; economic geology; analysis of cost; price of metals; smelter contracts; amortization and depreciation; reserves; reports. Prerequisites: Mining 101 and either 102 or 103.
2 units, autumn quarter (HOOVER) Th 10
autumn, 5

202. Mine Organization.—Lectures. The mining company; forms of business; frauds; selling mines; shares; balance sheet; profits; valuation; taxes; law. Prerequisite: Mining 201.
1 unit, winter quarter (HOOVER) Th 9
winter, 4

203. Mine Management.—Lectures. Organization and discipline of staff; technical committees, consulting engineers, managing directors, general managers; business principles and scientific management; vocational and technical training; personal qualities and efficiency; organization and discipline of labor; reports; supplies and material; cost and accounts. Prerequisite: Mining 202.
1 unit, spring quarter (HOOVER) Th 9

204. Valuation, Organization, Management.—Seminar and Problems. Analysis of data and elaboration of schemes of operation. Prerequisite: Mining 203.
1 unit, spring quarter (HOOVER) By arrangement

205. Research and Thesis.—Original study of some problem in the economics of mining, metallurgy or petroleum.
5 units, autumn, winter, and spring quarters (HOOVER) By arrangement
spring, 2

MINING

211. Prospecting and Development.—Seminar and Problems. The prospector; geological aspects; placer prospecting, prospecting for deposits in place, methods, and costs; engineering features; boring methods; development plans; methods and costs of shaft sinking, drifting, and raising; engineering records. Prerequisites: Mining 101 and either 102 or 103.
3 units, autumn quarter (DIETRICH) MW 8
autumn, 7

212. Surface Equipment.—Lectures and Problems. The economics and mechanics of surface equipment, including power, compressors, explosives, drills, roads, railroads, tramways, materials for structures, bins. Prerequisites: Mining 101, Physics 14, Engineering 110.
3 units, winter quarter (DIETRICH) TTh 11, Th 1:05
winter, 4

213. Underground Equipment.—Lectures and Problems. The economics and mechanics of power, hoisting, haulage, drainage, and pumping, ventilation, illumination. Prerequisite: Mining 212.
3 units, spring quarter (DIETRICH) TTh 11
spring, 1

214. Surface Operations.—Seminar and Problems. The methods and costs of open-pit and placer mining. Prerequisite: Mining 211.
4 units, winter quarter (DIETRICH)
winter, 3

215. Underground Operations.—Seminar and Problems. The methods and costs of underground mining. Prerequisite: Mining 214.
5 units, spring quarter (DIETRICH)
spring, 4

216a. Mine Sampling and Surveying.—Preliminary study and practice during the Winter Quarter, followed by a field course during the spring

vacation. Given in alternate years only. Prerequisites: Civil Engineering 20 and Mining 201.
4 units, winter quarter (Hoover, Dietrich) (winter quarter) W 1:05; (spring vacation) 90 hours
winter, 6; spring, 2

216b. Mine Efficiency Engineering.—Seminar and Problems. Special advanced work in mining engineering; considerable experience in the field is a desirable prerequisite. Prerequisites: 211–215, inclusive.
2 to 5 units, winter and spring quarters (Dietrich)
spring, 4

217. Mining Research and Thesis.—Original study of some problem in mining engineering.
autumn, winter, and spring quarters (Hoover, Dietrich) By arrangement
spring, 2

METALLURGY

221. Crushing, Sizing, and Classification of Ores.—Lectures. Mechanical preparation of ores for concentration or hydrometallurgical treatment; principles, practice, and cost of crushing, pulverizing, sizing, and hydraulic classification of ores, transportation of pulp throughout the plant, and thickening of pulps. Prerequisite: Mining 102.
2 units, autumn quarter (Hyde) TTh 11
autumn, 1

222. Concentration Processes.—Lectures. The principles, practice, and cost of the concentration of metalliferous minerals from ores. Prerequisite: Mining 221.
2 units, winter quarter (Hyde) MW 11
winter, 6

223. Ore Dressing.—Laboratory. Mechanical testing by laboratory methods to determine best method of ore dressing. To accompany course 213. Prerequisites: Mining 102 and 221.
2 to 5 units, winter quarter (Hyde) By arrangement
autumn, 1; winter, 2

224. Hydrometallurgy, Gold and Silver.—Lectures. The principles, practice, and cost of treating ores by amalgamation, cyanidation, chlorination, and lixiviation processes. Prerequisite: Mining 221.
3 units, autumn quarter (Hyde, Mills) MWF 9
autumn, 5; winter, 1

225. Hydrometallurgy, Copper, Lead, and Zinc.—Lectures. The principles, practice, and cost of recovering copper, lead, and zinc from ores by hydrometallurgical processes. Prerequisite: Mining 221.
3 units, spring quarter (Hyde, Morse) MWF 10
spring, 4

226. Hydrometallurgy.—Laboratory. Study of hydrometallurgical problems; to accompany courses 224 and 225.
2 to 5 units, autumn and spring quarters (Hyde) By arrangement
autumn, 2; spring, 4

227. Metallurgical Machinery.—Seminar and Problems. Design of an ore treatment plant. Prerequisite: Mining 223 or 226.
2 units, winter and spring quarters (Hyde) By arrangement

228. Pyrometallurgy, Copper, Lead, and Zinc.—Lectures. The principles, practice, and cost of recovering copper, lead, and zinc from ores by

pyrometallurgical methods; details of smelter operations; the physical chemistry of metallurgical operations. Prerequisite: Mining 102.
3 units, spring quarter (Crook) TTh 8
spring, 2

229. Pyrometallurgy.—Laboratory. Experiments illustrating the principles of oxydizing, sulphating, and chloridizing roasting, desilverization of base bullion, formation of slags, fusibility of refractories, heat treatment of steel, with checking of results by pyrometry and chemical analysis. Prerequisite: Mining 228.
2 units, autumn quarter (Hyde, Crook) By arrangement

230. Electrometallurgy.—Lectures and Laboratory. Review of electrochemistry as applied to electro-deposition of metals; principles and practice of electrolytic refining. The principles, practice, and cost of electric furnace work. Prerequisites: Mining 225, 228, and 234.
3 to 5 units, winter quarter (Crook, Morse) (Lab. not given 1926) MW 8
winter, 1

231. Metallography.—Laboratory and Lectures. Study of the properties and microstructure of metals and alloys; technique of metallographic investigation and photomicrography. Prerequisites: Mining 102 and 105.
3 units, winter quarter (Crook) T 8, MT 1:05
winter, 2

232. Pyrometry.—Laboratory and Lectures. Determination of high temperature and calibration of pyrometrical instruments. Prerequisites: Mining 102 and 105.
3 units, winter quarter (Crook) Th 8
winter, 2

233. Metallurgical Calculations.—Seminar and Lectures. Calculation of problems involving physical chemistry as applied to igneous and hydrometallurgy; calculation of efficiency of processes and furnace operations. Blast furnace charge calculations, etc. Prerequisites: Mining 225 and 228.
3 units, autumn quarter (Crook) T 8
autumn, 2

234. Metallurgical Analysis: Ores.—Laboratory. Rapid methods for quantitative determination of constituents of non-ferrous ores and metallurgical by-products. Prerequisites: Chemistry *f*, Mining 102.
3 or 4 units, autumn quarter (Dietrich) MTW 1:05
autumn, 6

235. Metallurgical Analysis: Metals and Alloys.—Laboratory. Rapid methods for quantitative determination of constituents of metals and alloys, ferrous metallurgical products and raw materials. Prerequisites: 105 and 234.
3 or 4 units, spring quarter (Crook) By arrangement
spring, 1

236. Heat Treatment.—Laboratory. Practice in the heat treatment of plain and alloy steels and non-ferrous alloys under controlled conditions. Testing and examination of products. Prerequisite: Mining 231 and 232.
4 units, spring quarter (Crook)
spring, 1

237. Metallurgical Research and Thesis.—Original study of some problem in metallurgical engineering.
autumn, winter, and spring quarters (Hoover, Hyde, Crook) By arrangement
autumn, 1

PETROLEUM

241. Petroleum Engineering.—Lectures. A course in the application of engineering principles to the solution of underground problems; construction of graphic logs and sections, correlation of strata, study of water problems. Prerequisite: Mining 103, or Economic Geology 162.
4 units, autumn quarter (TICKELL, MCLAUGHLIN) MWF 11
autumn, 8

242. Oil Well Water Analysis.—Laboratory. Rapid methods for the volumetric analysis of oil well waters. Prerequisites: Chemistry *f* or *g*, Mining 241.
2 units, winter quarter (TICKELL) MT 1

243. Oil Field Development.—Lectures. Dealing with the equipment and methods used in drilling oil wells. Prerequisite: Mining 103, or Economic Geology 162.
2 units, autumn quarter (TICKELL) TTh 9
autumn, 6

244. Production of Oil.—Lectures. The production of oil, control of wells, pumping methods, operation, dehydration. Prerequisite: Mining 243.
2 units, spring quarter (TICKELL) TTh 10
spring, 5

245. Storage and Transportation of Petroleum.—Lectures. Methods of storage and transportation; methods of gauging, design of tanks and pipe-lines, prevention of storage losses, fire hazards. Prerequisite: Mining 241.
3 units, winter quarter (TICKELL) TTh 9
winter, 2

246. Petroleum Refining and Utilization.—Lectures. Refined products and their use for fuels, light generation, and lubrication; the economics of petroleum. Prerequisite: Mining 244.
3 units, spring quarter (TICKELL) TTh 11

247. Oil Land Valuation.—Lectures. The methods used in appraising oil lands; estimation of future production, operating costs, depreciation of material, salvage, value of future profits. Prerequisite: Mining 244.
2 units, spring quarter (TICKELL) TTh 9
spring, 7

248. Oil Testing.—Laboratory. Determination of the physical properties of crude oils and their refined products, including the routine commercial tests on these substances. Prerequisite: Mining 103.
3 units, winter quarter (TICKELL) By arrangement
winter, 1

249. Oil Field Sediments.—Laboratory. Mechanical analysis of sediments as to grain size, porosity, mineral content, oil content by extraction and distillation, etc.
2 units, winter quarter (TICKELL) By arrangement

250. Advanced Work in Petroleum Engineering.—Laboratory. Special work in courses 241 to 248.
2 to 5 units, autumn, winter, and spring quarters (TICKELL) By arrangement
winter, 5; spring, 1

251. Petroleum Research and Thesis.—Original study of some problem in petroleum engineering.
autumn, winter, and spring quarters (HOOVER, TICKELL) By arrangement

MUSIC

WARREN D. ALLEN, Organist, and Director of the University Choir.

1. Choir. The choir sings at the morning service each Sunday in Memorial Church, the music consisting of anthem, chant, and hymns. Continuous course until end of year.
1 unit per quarter (ALLEN) Rehearsal Th 7:35 p.m.
autumn, 45; winter, 49; spring, 38; summer, 12

2. Oratorio. A separate choir, formed for the performance of oratorio and other major choral works.
1 unit per quarter (ALLEN) Rehearsals Th 8:20 p.m.
autumn, 49

3. Orchestra.—(Definite announcements regarding possible organization of a University Orchestra cannot be made until the beginning of the autumn quarter.)
1 unit per quarter (ALLEN)

4. Band.
1 unit per quarter (E. W. MARTIN)
autumn, 65; winter, 58; spring, 55

PHILOSOPHY

HENRY WALDGRAVE STUART, Professor.
JOSEPH ALEXANDER LEIGHTON (Ohio State University), Acting Professor (Summer Quarter).
HAROLD CHAPMAN BROWN, Associate Professor.

Besides affording an adequate preparation for advanced studies in Philosophy, the requirements for an undergraduate course in this department leave opportunity for all the usual elements of a general or liberal education. Major students are required to present for the Bachelor's degree 35 units in Philosophy (in which courses 1, 2, 100, 101, 102, and 200 must be included, and also the general courses in Psychology and in Medieval and Modern European History, or English History, which should be taken during the first two years in the University). The second-year courses in French or German are recommended as a part of the Lower Division work of intending major students. Each major student will be expected to devote sufficient time to a minor subject to gain a substantial knowledge of some one of its divisions or aspects.

The department will enroll students for one year of graduate work, leading to the degree of Master of Arts or to a minor for the degree of Doctor of Philosophy. The philosophical section of the general library contains at present (1) upwards of twenty complete sets of the leading philosophical journals—for most of which current subscriptions are carried, (2) the best available editions of the works of the principal philosophers, and (3) an extensive and constantly increasing collection of standard and contemporary literature—historical, critical, and constructive—covering the various fields of philosophical study.

Elementary

1. Logic.—The principles of Deductive and Inductive Logic, with special attention to the important types of fallacy. Open to all students.
5 units, autumn quarter (Brown) MTWThF 9
autumn, 153

2. Ethics.—A short survey of the morality of primitive peoples as compared with more developed forms of morality. The working principles of good conduct. The important historic theories as to the ethical criterion. Prerequisite: second-year standing.
4 units, winter quarter (Stuart) TWThF 8
winter, 53

3. Modern Scientific Conceptions of Nature and Mind.—A study of current views of cosmic structure and the place of man and his activities in nature, in the light of recent developments in physical chemistry, evolutionary biology, and psychology. Prerequisite: second-year standing.
4 units, winter quarter (Brown) TWThF 10
winter, 65

4. Esthetics.—The origins and nature of art. Its significance for religion, morality, and social life. The rise of art forms. Contemporary theories of esthetics. Prerequisite: second-year standing.
5 units, spring quarter (Brown) MTWThF 10
spring, 75

5. Inductive Logic.—Methods of investigation in use in the natural and social sciences, and the cardinal assumptions and principles on which these methods are based. The course closes with a brief introduction to the field of general philosophy. Prerequisite: course 1, or second-year standing with approval.
4 units, winter quarter (Stuart) TWThF 9
winter, 17

9. Religion.—A comparative study of some of the main historical and psychological phenomena of Religion, chiefly from data supplied by Brahminism, Buddhism, the religion of the Greeks, Judaism and Christianity. The meaning of Religion for culture and social life. Open to all students above first-year standing.
4 units, summer quarter (Leighton) TWThF 10
summer, 50

Intermediate

100. History of Philosophy.—The development of philosophical theories from the early Greek period to the end of the eighteenth century, with a brief outline of philosophical movements in the nineteenth century. Attention will be given throughout to the relations of philosophy with social and political conditions and with science, literature, and religion. Either quarter may be taken without the other.
4 units, autumn and winter quarters (Brown) TWThF 11
autumn, 150; winter, 60; spring, 1

101. Philosophy of the Nineteenth Century.—The development of philosophical problems in France, Great Britain, Germany, or America will be studied in successive years in relation to the national genius and the conditions under which they arose. Prerequisite: course 100, or spe-

cial permission of the instructor for suitably qualified third- or fourth-year students. The subject for 1924–25 was British Philosophy.
4 units, spring quarter (BROWN) TWThF 11
spring, 43

102. Introduction to Philosophy.—The aims and uses of philosophical study and the relation of philosophy to other subjects. How the problems of philosophy arise in the ordinary course of our experience. A review of the more important answers which have been proposed for these problems.
4 units, spring quarter (STUART) TWThF 10
4 units, summer quarter (STUART) TWThF 9
spring, 19; summer, 11

103. Ethical Principles and Practical Life.—A comparative study of selections from Aristotle, the Stoics, the New Testament, Herbert Spencer, Matthew Arnold, Nietzsche, and Tolstoy. The contemporary historical conditions of various sorts which had influence in forming each type of ethical teaching, and the practical tendencies of each type when applied in actual behavior. Conducted as an elementary course (8) in the summer quarter.
4 units, summer quarter (STUART) TWThF 8
summer, 19

104. The Social Order and the Individual.—Insect and animal "societies" and the types of human social organization. Social authority and individual initiative. The ethical basis of political obligation. The nature of democracy, aristocracy, and absolutism. Prerequisite: course 2 or an approved equivalent.
4 units, spring quarter (STUART) TWThF 8
spring, 13

105. Religion.—The psychological and social origins of religion. The relations of religion to science, to morality, and to philosophy. The distinctive content and characteristics of the great religions.
4 units (STUART) [Not to be given in 1924–25]

106. The History of Intelligence.—The mental processes of primitive peoples. The beginnings of thinking and the ideal of truth. Great movements in intellectual progress. Contemporary forms of truth-seeking in art, science, and religion. Prerequisite: course 1, 2, or 3.
4 units (BROWN) [Not to be given in 1924–25]

ADVANCED AND GRADUATE

[Special work will be assigned for graduate credit in connection with certain of the Intermediate Courses listed above.]

200. Contemporary Philosophy.—A critical study and estimate of the chief tendencies in contemporary philosophy with the aim of attaining a tenable affirmative point of view. Leighton's *Man and the Cosmos* (Appleton, N. Y., 1922) will be used as the text with collateral readings. Prerequisite: a course in Introduction to Philosophy or in Ancient or in Modern Philosophy or an approved equivalent.
4 units (LEIGHTON) TWThF 11
summer, 17

250. Seminary.
(*a*) Westermarck's *Origin and Development of the Moral Ideas.*
autumn quarter (BROWN)
autumn, 12

(*b*) Selected Topics.
spring quarter (BROWN)
spring, 13

(*c*) The Self in Contemporary Psychology and Philosophy.
winter and summer quarters (STUART)
winter, 5; summer, 7

PHYSICAL EDUCATION FOR MEN

WILLIAM HULBERT BARROW, Professor of Physical Education and Medical Adviser, Director of Encina Gymnasium.
GLENN SCOBEY WARNER (Football), ANDREW KERR (Football and Basketball), Directors.
HARRY WILFRED MALONEY (Minor Sports), ERNST BRANDSTEN (Water Sports), ROBERT LYMAN TEMPLETON (Track and Field), ERNEST PAUL HUNT (Freshman Sports), CLAUDE E. THORNHILL (Football), HARRY MEIGGS WOLTER (Baseball), Associate Directors.
CHARLES WESLEY DAVIS (Intramural Sports), HAROLD MCDONALD DAVIS (Tennis and Wrestling), CHARLES MYRON SPRAGUE (Swimming and Intramural Sports), Assistant Directors.
PAUL HERBERT DAVIS, General Manager.
WALLACE DENNY, Trainer.

The Department of Physical Education for Men includes under its jurisdiction all of the recognized athletic activities of the men students of the University. Work is so graded and arranged that every student, regardless of his ability, is enabled and encouraged to take active part in these activities. With the exception of those who elect military training, enrollment in some chosen specified sport, for three one-hour periods per week, is required of all Lower Division students. Upper Division students who have fulfilled this requirement may enroll in any of the sports or classes, and if they satisfy the requirement in regard to attendance and performance will receive one unit of credit for each quarter they are thus enrolled. Physical examination is made of all men in their first quarter at the University, and of all candidates for teams or athletic competition.

In addition to the required work, and the intercollegiate and intramural activities, courses will be offered from time to time when practicable in the theory and practice of certain sports. Such courses will combine lectures and required reading with field work and will carry academic credit. Courses 1 and 2 listed below will be given each year to afford the opportunity for students to become familiar with certain essentials of personal and community health.

1. Elementary Physiology and Hygiene.—The course is designed for men students in their first year at the University and does not require any previous knowledge of the subject. There are two lectures a week and required reading. The course is general in character and covers elementary anatomy of the human body and its normal functioning, cell formation and the differentiation of body tissues, effect of and reaction to disease, personal hygiene and first aid. This course may be applied

toward the fulfillment of the lower division biological science requirement.

2 units, autumn or winter quarter (Barrow) TTh 11
autumn, 84; spring, 38

2. Preventive Medicine and General Hygiene.—This course is offered by the department with the assistance of the Department of Bacteriology and will continue into a broader field the work of course 1. This will be a lecture course covering the fundamental principles of bacteriology and preventive medicine. Emphasis will be laid upon contagious disease, the hygiene of food, milk and water supplies, and general sanitation. Lectures and reading will be supplemented by laboratory demonstrations in elementary bacteriology and in laboratory methods for the examination of food supplies and water. No previous knowledge of the subject is required and the course will be open to both men and women students. It may be applied toward the fulfillment of the lower division biological science requirement.

2 units, spring quarter (Schultz, Barrow) TTh 11
spring, 198

3. Theory and Practice of Basketball.—This course covers the fundamentals and the general principles of the game of basketball, and lectures and required reading review the different systems used by various coaches. Written reports are required from time to time on supplementary reading of books by standard authorities in regard to the game. The course is offered with the idea of giving those who desire it for coaching and other purposes, a more intimate knowledge of basketball.

2 units, winter quarter (Kerr) TTh 10
winter, 24

4. Theory and Practice of Football.—This course is given with the same general purposes for the study of football as are outlined for basketball in course 3. The course is not intended so much for football players as for men who wish to develop their knowledge of the theoretical side of the game.

2 units, spring quarter (Kerr) MW 10

PHYSICAL EDUCATION FOR WOMEN

Helen Masters Bunting, Assistant Professor, and Director of Physical Education for Women.
Clelia Duel Mosher, Associate Professor of Personal Hygiene, and Medical Adviser of Women.
Ruth Calvin, Instructor.
Greta Johannsen Brandsten, Georgina Meyer Burk, Laura A. Peocock, Assistants in Instruction.
Alice Roth DeGroot, Dorothy Herdman, Secretaries.

The aim of Roble Gymnasium, as a laboratory of personal hygiene, is to improve the standard of health of the women; to increase their mental and physical efficiency; to foster a spirit of democracy and sportsmanship; and so to prepare for the highest type of citizenship.

Physical Education is required of all lower division students, and satisfactory completion of each quarter in Physical Education is essential

to promotion to the upper division. In general, the arrangement will be as follows: One hour of gymnastics per week for each quarter, and two hours per week for one quarter each of dancing, swimming, and an outdoor sport. After one quarter has been successfully passed in each of these two-hour courses the student may choose any two-hour courses offered to complete her required number of quarters.

A physical examination is made of each student in order to give advice as to work to be undertaken and to aid the student in removing any physical handicaps.

One unit of university credit per quarter is given for three hours per week of satisfactory work in the activities courses, whether elective or required.

Personal Hygiene

1. Personal Hygiene.—A study of some of the factors which make for normal development and maximum efficiency in everyday living.
3 units, winter and spring quarters (Mosher) MWF 11
winter, 31; spring, 39

Physical Education

1–5. Gymnastics.

1. Elementary Formal Gymnastics (one hour), combined with a two-hour course in dancing, swimming, or sports. Required of freshmen.
1 unit per quarter (Peocock)
autumn, 91; winter, 101; spring, 93

2. Intermediate Formal Gymnastics (one hour), combined with any two-hour Physical Education course. Required of sophomores.
1 unit per quarter (Calvin)
autumn, 100; winter, 81; spring, 111

3. Advanced Formal Gymnastics (one hour), combined with any two-hour Physical Education course. Elective for juniors and seniors.
1 unit per quarter (Calvin)
autumn, 24; winter, 37; spring, 6

5. Remedial Gymnastics (two hours), combined with course 1 or 2. Required of freshmen and sophomores whose posture demands special correction or who have other remedial handicaps. Elective for juniors and seniors. Open only on consultation.
1 unit per quarter (Calvin)
autumn, 49; winter, 35; spring, 23

10-19. Dancing.

10. Elementary Dancing, aesthetic and interpretive (two hours).
autumn, 33; winter, 29; spring, 18

11. Intermediate Dancing, interpretive and natural (two hours).
autumn, 20; winter, 11; spring, 9

12. Advanced Dancing, natural (two hours).
spring quarter only, 7

15. Folk Dancing.
winter only, 38

One quarter of either No. 10, 11, 12, or 15, required in freshman year. One or more additional quarters may be taken in sophomore year in fulfillment of the Physical Education requirement. Elective for juniors and seniors.
1 unit per quarter (Peocock) Combined with course 1, 2, or 3

20-29. Swimming and Diving.

20. Elementary Swimming (two hours).
autumn, 8; winter, 3; spring, 29

21. Intermediate Swimming. Requirement, 75 ft., any stroke (two hours).
autumn, 18; winter, 12; spring, 38

22. Advanced Swimming. Requirement, 75 ft., crawl or trudgeon stroke (two hours).
autumn, 24; winter, 20; spring, 60

25. Elementary Diving. Requirement, straight dive from three-foot board (two hours).
autumn, 6; winter, 1; spring, 8

26. Intermediate Diving. Requirement, running swan dive, back dive, forward jack-knife dive from three-foot board.
winter, 1; spring, 8

27. Advanced Diving. Requirement, in addition to that of course 26, backward jack-knife dive, and forward and backward somersaults from three-foot board.
autumn, 2; winter, 1; spring, 3

One quarter of either swimming or diving required in freshman year. One or more additional quarters may be taken in sophomore year in fulfillment of the Physical Education requirement. Elective for juniors and seniors.

1 unit per quarter (Brandsten, Calvin) Combined with course 1, 2, or 3

30-242. Sports.

30. Elementary Archery.
autumn, 17; winter, 8; spring, 21

31. Intermediate Archery.
autumn, 6; winter, 13; spring, 3

32. Advanced Archery.
autumn, 2; winter, 0; spring, 7

33. Freshman Basketball.
winter, 35

34. Sophomore Basketball.
winter, 21

133. Junior Basketball.
winter, 16

134. Senior Basketball.
winter, 10

234. Graduate Basketball.

35. Freshman Hockey.
autumn, 30

36. Sophomore Hockey.
autumn, 30

135. Junior Hockey.
autumn, 25

136. Senior Hockey.
autumn, 26

236. Graduate Hockey.

38. Elementary Tennis.
autumn, 11; winter, 13; spring, 20

39. Intermediate Tennis.
autumn, 21; winter, 12; spring, 22

40. Advanced Tennis.
winter, 11; spring, 32

41. Freshman Track.
spring, 7

42. Sophomore Track.
spring, 9

141. Junior Track.
spring, 4

142. Senior Track.
spring, 2

242. Graduate Track.

One quarter of one sport required in freshman year; one or more additional quarters may be taken in sophomore year in fulfillment of the Physical Education requirement. Elective for juniors and seniors.
1 unit per quarter (Bunting, Burk, Peocock) Combined with course 1, 2, or 3

110–299. Professional Courses.—Professional courses for training teachers of Physical Education. In preparation.

REGULATIONS AND REQUIREMENTS

Costume.—The gymnasium suit is especially designed for Stanford students and must be purchased at Roble Gymnasium. A limited number of suits may be rented at a nominal cost in special cases, upon consultation with the Director. Regulation gymnasium shoes are required for gymnastic and outdoor classes. Swimming suits are provided by the University. Each student provides her own caps and towel tickets. The complete outfit costs approximately twenty dollars.

Tennis.—The student is required to furnish her own racquet and balls.

Removal of Property.—All suits, shoes, racquets, or personal property not claimed within three days after the close of classes in this department each quarter will be collected and disposed of.

Fees.—A fee of $1.00 per day will be imposed for needless late registration in required classes. A gymnasium fee of $5.00 is required of graduate students taking work in Physical Education. Special fees will be charged as follows: Archery, $2; corrective gymnastics, $1.00; locker, 50 cents.

Deposit.—A deposit of $1.00 will be required for hockey, 50 cents of which will be refunded when property is returned.

PHYSICS

David Locke Webster, Frederick John Rogers, Professors.
Floyd Karker Richtmyer, Acting Professor (Summer Quarter).
Elmer Reginald Drew. Perley Ason Ross, Associate Professors.
Joseph Grant Brown, Assistant Professor.
Nelson Perry Case, Bernard D. Holbrook. Warren Whittier Nicholas, Assistants.

Lower Division Courses

These courses are divided into two main groups. One of these includes courses prescribed or recommended for students preparing for biology, chemistry, geology, medicine, and other lines of work not classed as engineering. The other group is designed for engineering students. Each group covers the general subject of physics, but they differ somewhat in their emphasis on various topics, and even more in their mathematical prerequisites.

For a detailed statement on prescribed courses, the student is referred to the announcement of his own department. In general, however, the courses of interest to non-engineering students are courses 1 to 4 (inclusive) and course 20, while those of interest to engineers are courses 10 to 15 (inclusive), and course 20.

Prospective Physics majors may take courses of either group, but are advised to begin their work in Physics with courses 1, 2, 20, 4, 15, and 100, in the order named, and to take course 13 concurrently with 15 or 100.

The details of each course are as follows:

1. Mechanics and Heat.—The lecture hours in this course are used chiefly for problem work on the application of mechanical principles to practical cases, and most of the experimental illustrations of these principles are found in the laboratory. The problems treated are on structures and machines of various kinds, and on the effects of inertia in moving bodies, including sound sources and sound receivers. Heat is treated only briefly, but with especial reference to the explanation of heat phenomena by the motions of molecules. The essential purpose of the course is not only to give information on these particular subjects, but also to introduce the student to the methods of exact reasoning needed in advanced scientific work of any kind. Three lectures, either with one laboratory period per week, counting 4 units altogether, or with two laboratory periods, counting 5 units altogether.

4 or 5 units, autumn quarter (Webster, Drew, Nicholas, Holbrook)
Lec. MWF 8 or 9; Lab. MTWThF 1:05–4:05; TTh 8–12 (any three hours)
autumn, 113

2. Electricity.—This course is concerned chiefly with problems on the common practical uses of direct currents, and experiments in the lecture room and laboratory illustrating their fundamental principles, including the essential principles of electrostatics, electrolysis, and electromagnetism. The last three weeks are given to brief surveys of alternating current phenomena and of the vacuum tube experiments that prove an electric current to be a stream of electrons.

4 or 5 units (as in course 1), winter quarter (Webster, Drew, Holbrook)
Lec. MWF 8 or 9; Lab. MTWThF 1:05–4:05; TTh 8–12 (any three hours)
autumn, 109

3. Lenses.—This course is planned for pre-medical students, as preparation for Physiology 103 and 105, but may be taken profitably by others who desire a brief survey of the optics of lenses and microscopes and cannot afford time for the more extensive work of course 4 or course 10. It may also be taken concurrently with course 10. One laboratory period per week.

1 unit, winter quarter (Drew, Holbrook)
Lab. MTWThF 1:05–4:05; TTh 8–12 (any three hours)
winter, 72

4. Light.—The course will deal primarily with the subjects of refraction, dispersion, interference, diffraction, and polarization of light. The course is designed especially for Physics and Geology majors, but is open to others. Two lectures and two or three laboratory periods per week. Prerequisite: course 1 or 12.

4 or 5 units, autumn and summer quarters, autumn (Brown, Case); summer (Drew) Lec. TTh 9; Lab. (two or three periods) MTW 1:05–4:05
autumn, 27; summer, 9

10. Light.—An elementary discussion of the simple phenomena of reflection, refraction, interference and polarization, and a study of the ways in which these phenomena are utilized in the common optical instruments and for refined measurements. As this course consists of lectures and problems only, students desiring laboratory work also may take course 3 concurrently with it.

2 units, winter quarter (Drew) Lec. WF 11
winter, 39

11. Statics.—A laboratory course to be taken concurrently with corresponding part of Theoretical Mechanics (Applied Mathematics *3a*) or Physics 111. (One laboratory period per week.)

1 unit, winter and *spring quarters (Ross, Case) MTWThF 1:05–4:05
winter, 62; spring, 32

12. Dynamics.—A laboratory course to be taken concurrently with the corresponding part of Theoretical Mechanics (Applied Mathematics *3b*) or Physics 112. (One laboratory period per week.)

1 unit, autumn and *spring quarters (Ross, Case) MTWThF 1:05–4:05
autumn, 14; spring, 51

13. Heat.—The course will treat the subjects of expansion, change of state, calorimetry, transfer of heat, radiation, absorption, and the relation of heat to other forms of energy. The properties of liquids and gases, including elasticity, viscosity, surface tension, diffusion, and osmosis will be treated briefly. Prerequisite: course 12 or concurrently with 12.

4 or 5 units, winter and *spring quarters
winter, (Brown) Lec. TTh 11; Lab. (two or three periods) WThF 1:05–4:05
spring, (Drew) Lec. MWF 11; Lab. (one or two periods) MTW 1:05–4:05
winter, 15; spring, 37

14. Electricity.—Magnets, magnetic fields, magnetic flux, and magnetic circuits. Electric currents, electromotive force, and resistance in electrical circuits. Electric charges, electric fields, and electric potentials. Electromagnetism, electromagnetic induction, electric and magnetic energy transformations. The C. G. S. and practical units of electrical quantities. Prerequisite: course 13.

4 or 5 units, autumn and *spring quarters (Rogers, Nicholas)
autumn, Lec. MWF 11; Lab. (one or two periods) MTW 1:05–4:05
spring, Lec. TTh 11; Lab. (two or three periods) MTThF 1:05–4:05
autumn, 41; spring, 9

15. Electricity and Electrical Measurements.—Precise measurements of current, E. M. F., resistance, electric power, capacitance, inductance, and the magnetic properties of iron. Lectures on the above topics and on electric oscillations and resonance, electric discharges, cathode rays, and electron tubes. Prerequisites: course *2* and calculus, or course 14. (New number, 1925–26, 100.)

4 or 5 units, winter quarter (Rogers, Nicholas)
Lec. TTh 11; Lab. (two or three periods) MTThF 1:05–4:05
autumn, 13; winter, 38

20. Modern Physics.—A course on the discoveries of the last few decades on the nature of matter and energy. Specific topics covered are: Evidence for the reality of atoms, their sizes and their arrangements in the structures of crystals; electrons and nuclei as the constituents of atoms, with current theories of atomic structure; the wave theory of light and the electrical nature of light waves; the reactions between electrons, light waves, and atomic collisions, leading to the theory of quanta; the nature of space and time. These topics are not suitable for problems or laboratory work, and are therefore treated by reading and lectures, with lecture experiments where they are practicable. Prerequisite: course 2 or 14.

3 units, spring and *summer quarters (spring) (WEBSTER, Ross) Lec. MWF 8
(summer) (RICHTMYER) Lec. TWTh 10

spring, 89; summer, 27

UPPER DIVISION COURSES

100. Ions and Electrons.—Ionization and conductivity of electrolytes. Ionization and conductivity of gases. Electrons in vacuum tubes. Electron theory of metals. Electron theory of magnetism. X-rays and crystal structure. Prerequisite: course 15. (New number, 1925–26, 101.)

5 units, spring quarter (ROGERS)
Lec. MTThF 11; Lab. (one period) MTW 1:05–4:05

101. Advanced Electricity.—Electric forces, fields, and potential, and the computation of capacitances. The Faraday-Maxwell theory of dielectric stresses. Theories of magnetism and hysteresis. The circuital laws of electromagnetism, the computation of inductances. Electric oscillations and resonance. The elements of electromagnetic waves. Prerequisite: course 15. (New number, 1925–26, 205.)

5 units, autumn quarter (ROGERS) Hours by arrangement
[In alternate years; to be given in 1924–25]

autumn, 4; spring, 1

102. Radioactivity.—Lectures, lecture experiments and a few laboratory experiments on radioactivity. Prerequisite: course 100.

4 units, autumn quarter (Ross) Lec. MTW 11; Lab. M 1:05–4:05
[Given in alternate years; to be given in 1924–25]

autumn, 6

103. X-Rays.—A reading course with a few lectures and laboratory experiments, primarily for physics majors and students who intend to apply X-rays for medical purposes. Prerequisite: courses 20 or 100.

3 units, autumn and summer quarters (autumn) (WEBSTER)
(summer) (RICHTMYER). By arrangement
[In alternate years; to be given in 1924–25]

autumn, 8; summer, 9

104. Thermionic Tubes.—Theory and practical uses of Thermionic tubes.

3 units, spring quarter (READ) By arrangement

spring, 18; summer, 1

110. Wave-Motion and Sound.—About one-third of the time will be given to wave-motion, using wave machines, wave models, ripple troughs, and lantern slides for illustration. The work on sound will deal largely with the production and propagation of sound, resonance, interference, musical instruments, and hearing. The production and properties of high frequency sound, the phonograph, the radiophone, and acoustics of

auditoriums will be treated briefly. Two lectures and 2 or 3 laboratory periods per week. Prerequisite: course 1 or 12.

4 or 5 units, spring quarter (BROWN) Lec. TTh 9; Lab. (2 or 3 periods) [In alternate years; to be given in 1924–25]

spring, 2

111. Theoretical Mechanics.—A course on the mathematical theory of mechanics for students of physics and mathematics. Students in this course may take course 11 (laboratory only) concurrently with it, and are advised to do so. Prerequisite: calculus.

5 units, autumn quarter (ROSS) Lec. MTWThF 9

autumn, 2

112. Theoretical Mechanics.—A continuation of course 111. Students in this course may take course 12 concurrently, and are advised to do so. Prerequisite: course 111.

5 units, winter quarter (ROSS) Lec. MTWThF 9

113. Mechanical Measurements.—A course in exact measurements of mass, length, time, gravity, elasticity, surface tension, viscosity, etc. The student will be given the privilege of selecting the field in which he works. Two or three laboratory periods per week. Prerequisite: course 1 or 12.

2 or 3 units, spring quarter (BROWN) [Given in alternate years; not offered in 1924–25]

120. Optical Instruments.—Elementary geometrical optics of the prism, the thick lens, and combinations of lenses, as used in optical instruments. Theory of the diffraction grating and interferometer, resolving power of instruments. Prerequisite: course 4. Three lectures and one laboratory period per week.

4 units, winter and summer quarters (DREW) By arrangement [Given in alternate years; offered in summer only 1924–25]

summer, 4

121. Physical Optics.—Lectures on emission and absorption spectra, magneto-optics, optical activity, fluorescence, and theories of atomic and molecular structure. Laboratory work with spectrometer, interferometer, and polarimeter. Prerequisite: course 120.

4 units, spring quarter (BROWN) Lec. TTh 11; Lab. ThF 1:05–4:05 [Given in alternate years; not offered in 1924–25]

130. Meteorology.—A course on the physics of the air. Textbook, lectures, and problems. Prerequisite: a year of college physics.

4 units, winter quarter (BROWN) Lec. MWF 11 [Given in alternate years; not offered in 1924–25]

131. Atmospheric Electricity.—The potential gradient of the earth's electric field; ionization of the atmosphere; electrification of clouds and rain and theories. Prerequisite: course 2 or 14. Physics 101 and ability to read German are desirable.

3 units, winter quarter (BROWN) Lec. MWF 9 [In alternate years; given in 1924–25]

winter, 6

140. History of Physics and Physical Sciences up to the opening of the 19th century. A course designed especially for students preparing for high school or college teaching, or for research in physics. Each member of the class is assigned a particular field and he is expected to prepare and present lectures on the history of this field. Prerequisite: a year of college physics.

2 units, autumn quarter (BROWN) TTh 11

autumn, 3

141. History of Physics during the 19th Century and up to the present. A continuation of course 140.
2 units, winter quarter (Ross) TTh 11
winter, 3

COURSES PRIMARILY FOR GRADUATES

200. Teacher's Course in Physics.—The history of the development of present-day methods of teaching physics, and practice in outlining courses for use in the high school. Two lectures and one library period per week. Prerequisite: a year of college physics.
3 units, spring and *summer quarters By arrangement
spring quarter (BROWN); summer quarter (DREW)
spring, 5; summer, 13

201. Literature of Physics.—An intensive study of the literature of special topics in physics. This course is intended for two classes of students: (*a*) those who expect to engage in research and wish to become familiar with the present status of the subject of the proposed research; and (*b*) those who are preparing for the teaching of physics and wish to acquire facility in working up a subject for class use. The work consists chiefly in the preparation and presentation of reports upon the topics studied.
(Any member of the Department) By arrangement
winter, 3 (2 groups); summer, 8 (2 groups)

210. Kinetic Theory.—The properties of gases deduced from the mechanics of molecules, equipartition of energy and specific heats, electron theory of conductivity, Brownian movement, surface energy, critical point and change of state, cohesion and cohesion phenomena. Prerequisite: course 112.
5 units, spring quarter (Ross) By arrangement
[In alternate years; to be given in 1924–25]
spring, 6

211. Thermodynamics.—Extended discussion of the second law of thermodynamics and its application to physical and chemical transformations. Prerequisite: calculus.
3 units, autumn quarter (DREW)
[In alternate years; to be given in 1924–25]
autumn, 6

212. Electrical Theory.—Maxwell's equations and electromagnetic radiation; Poynting's theorem; electron theory. Prerequisite: course 101.
5 units, winter quarter (ROGERS) By arrangement
[In alternate years; to be given in 1924–25]
winter, 4

213. Thermionic and Photoelectric Phenomena.—Reading and conferences on the thermionic and photoelectric phenomena, including the inverse photoelectric effect, and on their theoretical significance as to the nature of radiant energy. Prerequisite: course 100.
3 units, autumn quarter (WEBSTER) By arrangement
[Given in alternate years; not offered in 1924–25]

214. Quantum Theories of Line Spectra.—Reading and conferences on current theories of the line spectra of light and X-rays, and their relation to atomic structure. Prerequisite: course 213.
3 units, winter quarter (WEBSTER) By arrangement
[Given in alternate years; not offered in 1924–25]

215. Quantum Theories of Continuous Spectra.—Reading and conferences on current theories of the continuous spectra of light and X-rays. Prerequisite: course 214.

3 units, spring quarter (Webster) By arrangement
[Given in alternate years; not offered in 1924–25]

220. Journal Club.—Oral reports on the current literature of physics by department faculty and graduate students.

autumn, winter, and spring quarters F 4:15–6:00
autumn, 1; spring, 2

230. Research.—Under this head may be included all work on original problems, experimental or theoretical.

Units and quarter by arrangement (Any member of the Department)
winter, 7

Requirements for Graduation.—For graduation in the department the minimum requirement is 60 units of Physics and Chemistry, of which at least 45 units must be Physics. Physics majors are advised to begin their work in Physics with courses 1, 2, 20, 4, 15, and 100, in the order named and to take course 13 concurrently with 15 or 100. Courses in related subjects may be substituted for some of the physics courses on the approval of the Department of Physics.

The Teacher's Recommendation.—The minimum requirement for a major is 45 units of Physics, which should include courses 1, 2, 20, 4, and 200. For a minor, the minimum requirement is 25 units, which should include courses 1, 2, 20, and 200. Courses in related subjects may be substituted for some of the Physics courses on the approval of the Department of Physics. It is highly desirable for candidates for the Teacher's Recommendation in Physics to work as Teaching Assistants in the elementary laboratories. The practice teaching requirement of the Department of Education may be met in this way.

Laboratory Fees.—Courses with one laboratory period, $3 per quarter; two, $5 per quarter; three, $6 per quarter.

Summer Quarter

Courses given in the Summer Quarter are practically repetitions of certain courses given also in other quarters, but are not all listed here because their details depend on the choice of a visiting professor who will give some of them. The list will certainly include course 200 (Teachers' Course), 201 (Literature of Physics), and course 20 (Modern Physics). There will also be one or more other courses of the Upper Division or Graduate list and perhaps course 4, course 13, or course 14.

PHYSIOLOGY

Ernest Gale Martin, Professor.
Frank Walter Weymouth, Associate Professor.
James Percy Baumberger, George Daniel Shafer, James Rollin Slonaker, Arthur Gibson Vestal, Assistant Professors.
Laurence Irving, Instructor.
James Montrose Duncan Olmsted, Acting Assistant Professor (Summer Quarter).

4S. Elementary Lectures.—A lecture course open to qualified students. The subject matter of course 101 is covered. Textbook: The Human Body, Martin, Advanced Course, Tenth Edition. Given only in alternate years.

2½ units, summer quarter, first half (SHAFER) MTWThF 9
summer, 20

5S. Elementary Lectures.—A course covering the subject matter of course 102. Given in alternate years.

2½ units, summer quarter, first half (SHAFER) [Not given in 1925]

9. Elementary Physiology of Marine Organisms.—In this course each student undertakes under guidance of an instructor, to solve by his own efforts one or more simple problems in the psysiology of marine organisms, either plant or animal. The problems assigned do not require an extensive background of knowledge, although elementary chemistry and elementary biology are found helpful. Frequent informal conferences are held, at which individual students report their findings to the entire class and members of the instructing staff discuss the reports with the class in such a way as to emphasize the physiological principles involved. An effort is made to distribute the problems over a wide enough field so that the reports and discussions will furnish a general survey of physiology.

A partial list of general headings under which assigned problems fall is as follows:

Photosynthesis in marine plants.
Environmental conditions suitable to marine plant life.
Responses of marine plants to stimulation.
Motion in sea anemones, in starfish, in molluscs, in crustacea, in fish.
Responses of marine animals to stimulation (tropisms).
Environmental conditions suitable to marine animal life.
Digestion and circulation in marine organisms.
Respiratory interchanges in marine forms.
Text-book: General Biology, Burlingame, Heath, Martin, Peirce.

5 units, summer quarter, at Hopkins Marine Station (MARTIN, OLMSTED)
Three afternoons weekly

101. Elementary Physiology.—The structure and functions of the body with special reference to the mechanisms of external adaptation, namely, muscles, nervous system, and sense organs. Designed, primarily, for students who are not looking forward to the study of Medicine. Intended to impart a general conception of the relationship of the human body to its environment. Textbook: The Human Body, Martin, Advanced Course, Tenth Edition. Open to upper division students and to lower division students who have had college courses in Biology and Chemistry.

5 units, autumn quarter (WEYMOUTH) Lec. MWF 10; Lab. ThF 1:05–4:05
autumn, 15

102. Elementary Physiology.—The structure and functions of the body with special reference to maintenance, growth, and energy liberation. In this course, special attention is paid to circulation, digestion, excretion, and metabolism. Although designed to offer in connection with course 1 a survey of the field of human physiology, this course is planned so that it may be taken independently of course 1. Textbook: The Human Body, Martin, Advanced Course, Tenth Edition. Requirements for admission the same as for course 101.

5 units, winter quarter (MARTIN, IRVING) Lec. MWF 10; Lab. MT 1:05–4:05
winter, 6

103. Principles of Physiology.—An advanced study of the fundamental principles of physiology. The field is surveyed from the standpoint of the functioning of single cells and of multicellular organisms. An especial effort is made to familiarize the student with basic phenomena and their interpretation. The course serves primarily as a preparation for courses 104 and 105, but is designed to meet the needs of advanced students who desire a general survey of the field and are unable to devote the time required for taking courses 103, 104, and 105. Required of majors in the department. Prerequisites for majors: eighteen units of Biology, including Histology; Physics 1, 2, and 20, or their equivalents; Chemistry up to and including Biochemistry. Advanced students of other departments presenting less than these prerequisites may be admitted on recommendation of their major departments provided their previous training is of a character to enable them to take the course with profit; it is desirable that such training include Biology and Elementary Chemistry. Textbook: Starling's or McLeod's Physiology.

5 units, winter quarter (MARTIN, BAUMBERGER, SLONAKER)
Lec. MWF 8; Lab. WF 1:05–4:05

winter, 76

104. Physiology of Maintenance.—The detailed application to man of the general principles developed in course 103, so far as they relate to bodily maintenance. The laboratory work is based, as far as possible, on mammals, including the human body itself. Textbook: Starling's or McLeod's Physiology. Required of majors in the department. Prerequisite: course 103.

4 units, spring quarter (MARTIN, BAUMBERGER, SHAFER, SLONAKER)
Lec. TTh 11; Lab. ThF 1:05–4:05

spring, 76

105. Physiology of Adjustment.—The detailed application of the principles developed in course 103 to the mechanisms by which in mammals and man the organism is adjusted to its environment; thus comprising a study of the sense organs, the nervous system, and the motor apparatus. Prerequisites as in course 103 plus Physics 3. Advanced students of other departments may be admitted on the terms stated under course 103 provided they present such work in the anatomy of the nervous system and sense organs as will enable them to profit by the course. Required of majors in the department. Textbooks: Starling's or McLeod's Physiology, Herrick's Introduction to Neurology.

5 or 6 units, spring quarter (WEYMOUTH, BAUMBERGER)
Lec. MWF 11; Lab. TW or ThF 1:05–4:05

spring, 75

109. Advanced Physiology of Marine Organisms.—The general method followed in this course is the same as in course 9. The problems assigned will be of a more advanced character, involving the use of standard methods of chemical and physiological research. Only students with adequate training in biology, chemistry, or physics will be enrolled.

The aim of the course is to introduce students to the physiological problems presented by marine organisms and to familiarize them with the technique by which such problems may be attacked. Frequent informal conferences will be held at which the data secured by individual students will be discussed by the class and by the instructing staff.

To indicate the general character of the work a few representative problems are given here:

Coagulation of Crustacean blood.
Oxygen dissociation curve of hemocyanin.
Buffer action and carbon dioxid-carrying power of crabs' blood.
Influence of hydrogen-ion concentration on ciliary activity.
Turgescence in medusae.
Gas content of swim-bladders of fishes.
Salt equilibria in brine-inhabiting organisms.

Students capable of carrying on research work under guidance will be allowed the widest range practicable in the selection of problems.

5 units, summer quarter, at Hopkins Marine Station (MARTIN, OLMSTED) Three afternoons weekly

110. Physiology of Arthropods.—Special problems involving laboratory work, using insects or other Arthropods as material. Prerequisite: one of courses 9, 103, 109, or equivalent.

any quarter (BAUMBERGER, SHAFER, WEYMOUTH) By arrangement
autumn, 1; spring, 2

206. Journal Club.—A study of physiological literature, with oral and written reports. Required during two quarters of majors in the department.

1 unit, autumn, winter, and spring quarters (WEYMOUTH) By arrangement
autumn, 3; winter, 5; spring, 9

207. Special Physiology.—An advanced non-laboratory course open to students who have had one of courses 103, 104, or 105. Designed to afford opportunity for the further study of selected subjects in Physiology. The work will be planned for the individual student.

1 to 5 units, any quarter (DEPARTMENT FACULTY) By arrangement
autumn, 2

208. Research in Physiology.—Special problems involving laboratory work.

(DEPARTMENT FACULTY) By arrangement
autumn, 5 (3 groups); winter, 2 (2 groups); spring, 4 (2 groups)

Students will be recommended for the A.B. degree by the Department of Physiology who have fulfilled the requirements for admission to the Stanford Medical School, have taken courses 103, 104, 105, and two units of course 206 within the department, or equivalent courses elsewhere, ten additional units either within the department, or in the departments of Anatomy or Bacteriology, and lecture and laboratory courses in physiological chemistry to the amount required by the Stanford Medical School. Anatomy 1 (Histology) is a prerequisite, also, and cannot be counted toward the ten additional units mentioned above as optional from the Department of Anatomy.

The preliminary requirements of the Stanford Medical School are: Fifteen quarter units of college biology (General Biology, Comparative Anatomy, and Embryology usually offered); general chemistry, qualitative and quantitative analysis, lecture course in organic chemistry (24 units of chemistry); thirteen quarter units of college physics; nine quarter units of college English; a reading knowledge of either French or German.

Students who have completed the work of the Lower Division will be admitted as majors in the department, but to satisfy without serious

schedule difficulties the departmental requirements within the regularly allotted six quarters, they will find it advantageous to have taken as much as possible of the required preparatory science while still in the Lower Division.

The department requirement for students looking forward to Medicine is designed to enable them to cover the required pre-medical subjects and the work of the first year in the Medical Department of this University, or to fit them to undertake to advantage the work of other first-class medical schools.

In addition to those majors looking forward to Medicine, provision is also made for such as are interested primarily in Physiology as a preparation for teaching or research, or as a phase of biological training.

The laboratory and library facilities are such as not only to provide for the proper teaching of the scheduled courses but to afford profitable opportunity for research along special lines—notably general physiology (for which the facilities of the Hopkins Marine Station are available); sense physiology (particularly vision) in man; mammalian physiology; and growth.

The Teacher's Recommendation.—Programs are offered for students seeking the teacher's recommendation as follows: Teaching major: Elementary Chemistry, 9 units; Biology, 18 units, including either Comparative Anatomy, Vertebrate Embryology, or Histology; Physiology, 15 units (courses 103, 104, and 105).

Teaching minor: Elementary Chemistry, 9 units; General Biology, 9 units; Physiology, 10 units (courses 101 and 102).

POLITICAL SCIENCE

Victor J. West, Edwin Angell Cottrell, Professors.
Robert Treat Crane (University of Michigan), Acting Professor (Summer Quarter).
Graham Henry Stuart, Associate Professor.
Flora May Fearing, Instructor in Citizenship.
Gilford Glenn Rowland, Research Assistant.

It is the purpose of the Department of Political Science to provide instruction for (*a*) those students, whatever their special interests, who desire to be informed about the organization, relationships, and processes of political institutions, and (*b*) those who desire to become teachers or investigators in political science. The courses offered by the department are so planned that, together with certain courses in Economics, History, Law, and Philosophy, they constitute a systematic and fairly complete treatment of the subject. Each course, except course 1, deals with a special phase of the subject and has a definite relation to all of the other courses offered, but is so presented as to be complete in itself. Course 1 serves as a general survey of political science and as an introduction to all the other courses.

Graduation.—The department accepts as majors both the specialists and the students desiring the fundamentals of a liberal education. The

minimum requirements for the recommendation for the A.B. degree in Political Science are the completion (1) of the work of the Lower Division (or its equivalent) and (2) of about forty units of Political Science. The department will endeavor to arrange the program of each of its major students to fit his particular aims. Certain courses in Economics, History, Law, and Philosophy may be counted as Political Science at the discretion of the department.

Students taking Political Science as a major with the intention of preparing for journalism are referred to the announcement of the Division of Journalism (p. 219).

Students desiring to prepare for foreign service or for municipal management are invited to confer with the department respecting the opportunities in these lines and the course of study for each.

TEACHER'S RECOMMENDATION.—For the recommendation for the high school teacher's certificate with Political Science as a minor, the applicant should have completed, in a manner satisfactory to the department, at least 23 units in Political Science, including courses 1, 2, 10, 102, 112, and a seminar.

ADVANCED DEGREES.—Advanced and graduate courses are described in the following pages. For the conditions under which candidates for higher degrees are accepted by the department, see the Graduate Study Circular.

ELEMENTARY AND GENERAL COURSES

1. Introduction to Political Science.—Fundamental political conceptions: State, government, nature and source of public authority, individual liberty; governmental organization; governmental functions; political parties; international relations. Open to all students. This course, or its equivalent, is prerequisite for all other courses offered by the department.

5 units, autumn quarter (WEST) MTWThF 8
autumn, 77

2. State and Local Government.—Township, municipal, county, and state government in the United States, with special attention to California. (Open to first-year students by permission.)

5 units, winter quarter (COTTRELL) MTWThF 9
winter, 76

INTERMEDIATE COURSES

[Not open to students who have less than 40 units of University credit.]

10. Comparative Federal Government.—An inquiry into the operation of the federal principle in the United States and other federal states. Concerned chiefly with the "division of powers" and the relationships between central and local governments; emphasis on recent tendencies.

4 units, winter quarter (WEST) MTWTh 8
winter, 61

11. Parliamentary Government.—A study of those European governments in which the responsible ministry is the characteristic feature; especial attention to England and France. Emphasis on the relationships between the representative assembly and the executive.

4 units, spring quarter (STUART) MTWTh 11
spring, 40

20. Current International Politics.—A study of the outstanding political problems resulting from the World War; the fulfillment of the Treaty of Versailles; the settlement of the allied debt; the Near Eastern question; the foreign policy of the Coolidge administration; other international questions of current interest.
4 units, summer quarter (STUART) TWThF 8
summer, 43

ADVANCED COURSES

[Not open to students who have less than 80 units of university credit, except by special arrangement.]

100. Elections.—The organization of the electorate for the performance of the functions of direction and control of governments; theories of voting; qualifications for voting; election methods—primary and ballot laws, safeguards against fraud, election contests, etc.
3 units, winter quarter (WEST) MTW 11
winter, 16

101. Legislatures and Legislation.—Composition, organization, and functions of representative assemblies; theories of representation; legislative procedure for control purposes and lawmaking; bill drafting.
4 units, spring quarter (WEST) MTWTh 8
spring, 29

102. Political Parties.—The political party as a part of the political machinery; party organization; party activities; campaign methods; reform movements; public opinion and party leadership; the true functions of parties; party responsibility. (Desirable prerequisite: Political Science 100.)
4 units, summer quarter (CRANE) TWThF 9
summer, 27

110. Administrative Organization.—Principles of administrative organization; relation of executive to other branches; territorial distribution of administrative functions; organization of executive departments; elective versus appointive executives; single versus plural executives; responsibility of administrative officers; administrative reorganization in the United States.
4 units, autumn quarter (COTTRELL) MTWTh 10
autumn, 75

111. Administrative Problems.—Methods of administrative control; the budget; accounting and reporting; purchase and supply; personnel—selection, promotion and demotion, removal and retirement. (Desirable prerequisite: Political Science 110.)
4 units, spring quarter (COTTRELL) MTWTh 8
spring, 27

112. Municipal Administration.—The special problems of city government: City planning; streets and parks; lighting; water supply; waste disposal; health; police; fire prevention and protection; education; revenue, expenditure and debt; public utilities. (Desirable prerequisites: Political Science 110 and 111.)
4 units, spring quarter (COTTRELL) MTWTh 10
spring, 58

113. Administration of Justice.—The principles and methods of administrative and judicial organization and procedure for the enforcement of

law—the settlement of controversies, and the conviction and punishment for violation of law.
(See Law 259) [Not given in 1924–25]

114. Foreign Service.—Organization and functions of the Department of State; duties of diplomatic and consular officers; diplomatic usage; negotiation, ratification, and termination of treaties.
3 units, spring quarter (STUART) MTW 9
spring, 45

115. Colonial Administration.—Colonial expansion and its causes; modern imperialistic expansion of European states; the British self-governing dominions and the crown colonies; French, German, Dutch, and American systems of colonial administration; spheres of influence; mandate system.
3 units (STUART) [Not offered in 1924–25]

118. Government in Its Relation to Industry.—The effect on governmental problems caused by changes in business organization since the industrial revolution. The "laissez faire" versus the "general welfare" concept of governmental function. Measures needed to make the general welfare concept effective.
4 units (COTTRELL) [Given in summer 1924; not offered in 1924–25]

119. Methods of Governmental Research.—The purpose of this course is the direction and training of students in methods of collecting and presenting data in governmental fields. Limited to 12 senior political science or economics majors.
4 units, autumn quarter (COTTRELL) MTWTh 8
autumn, 15

119a. Quantitative Measurements in Public Administration.—Demonstration and practice in quantitative treatment of governmental problems. Serviceable methods of collecting, tabulating, and presenting data will be emphasized. Open to students interested in the scientific or practical aspects of any phases of public administration. Students may choose problems in fields of their immediate interest. Lectures and laboratory.
2 to 4 units, summer quarter (FEARING) T 2:05–4:05
summer, 8

120. International Organization.—The progress of international organization in the past; the development of diplomatic and consular systems; good offices, mediation, and arbitration; experiments in international administration; projects for international federation; the establishment of the League of Nations and the World Court.
4 units, winter quarter (STUART) MTWTh 9
winter, 35

121. The League of Nations.—Critical study of the Covenant of the League of Nations; the organization and functions of the League government; the various subordinate governing agencies; the mandate system; the work of the League of Nations. (Desirable prerequisite: Political Science 120.)
4 units, summer quarter (STUART) TWThF 10
summer, 28

122. Introduction to International Law.—Nature and scope of international law; rights and duties of states; jurisdiction; nationality; relations of states in peace and war; international law and the League of Nations. An introductory course designed for the general student.
4 units (STUART) [Not given in 1924–25]

GRADUATE COURSES

[Open to advanced undergraduates by permission.]

201. History of Political Theory.—Development of political thinking from ancient times to the present; Classical period; Medieval period; Renaissance and Reformation; revolution and reaction; the analytical school; the historical school; recent tendencies.
4 units (———) [Not offered in 1924–25]

202. American Political Theories.—Development of political thinking in America from colonial times to the present day, including the theories of the Revolution, the Constitution, the Jeffersonian and Jacksonian democracies, the slavery controversy, "states' rights," and modern tendencies.
4 units, summer quarter (CRANE) TWThF 11
summer, 32

203. Contemporary Political Theory.—A detailed study of the leading political ideas since the middle of the nineteenth century with special reference to the various contemporary doctrines regarding the relation of the state to property and labor,—socialism, guild socialism, syndicalism, the social catholic movement, etc.
4 units (———) [Given in summer 1922; not offered in 1924–25]

204. Principles of Politics.—A systematic study of the principles of political science; scope and method of political theory; the nature of the state; the origin and basis of the state; sovereignty; the form of the state; functions of the state.
4 units (———) [Given in winter 1924; not offered in 1924–25]

240. Seminar in Politics.—Topic for 1924–25: Use of money in elections.
2 units, autumn and spring quarters (WEST) M 2
autumn, 14; spring, 13

241. Seminar in Government.—Topic for 1924–25: Municipal statistics.
2 units, winter quarter (COTTRELL) M 2
winter, 13

242. Seminar in International Relations.—Topic for 1924–25: Administrative activities of the League of Nations.
2 units, winter quarter (STUART) T 2
winter, 13

250. Graduate Seminar.—For candidates for higher degrees.
spring quarter (WEST) T 2
spring, 6

Courses in public law are given by the Law Department, which offers the following:

[**Constitutional Law.** Law 225 and 226.]

[**Administrative Law and Public Officers.** Law 227.]

[**Municipal Corporations.** Law 238.]

[**Public International Law.** Law 216.]

[**Judicial Administration.** Law 259.]

The following courses offered by other departments deal very largely with subjects comprised in the field of political science:

[**Roman Law.** Classical Literature C7.]

[**Roman Municipal Organization.** Classical Literature C8.]

[**Public Finance.** Economics 21.]
[**English Literature and Political Thought.** English 185.]
[**Ideal Commonwealths.** English 197.]
[**Propaganda and Censorship.** History 146.]
[**British Constitutional History.** History 158.]
[**Tropical Colonization in the Far East.** History 167.]
[**Government of Japan.** History 197.]
[**Military Law.** Military Science 144.]
[**Social Order and the Individual.** Philosophy 104.]

PSYCHOLOGY

Lewis Madison Terman, Walter Richard Miles, Professors.
Truman Lee Kelley, Professor of Education.
Edward Kellogg Strong, Jr., Acting Professor.
John Edgar Coover, Associate Professor, and Research Fellow in Psychic Phenomena.
Maud Amanda Merrill, Calvin Perry Stone, Assistant Professors.
Franklin Smith Fearing, Instructor.
Paul Farnsworth, Acting Instructor (Summer Quarter).
Helen Marshall, Assistant in Instruction.
Helen P. Davidson, Assistant in Instruction.
Dortha Williams Jensen, Research Assistant in the Study of Gifted Children.
Florence Bathgate, Barbara Burks, Zena C. O'Connor, Research Assistants in the Study of Foster Children.
Hugh C. Blodgett, Research Assistant in Animal Behavior.
Beatrice Rakestraw, Research Assistant in the Study of Physical Efficiency.

The courses offered by the Department of Psychology are planned to meet the needs of three groups of students: (1) undergraduate majors in psychology; (2) candidates for the A.M. and Ph.D. degrees with major or minor in psychology; (3) students who desire a general knowledge of psychology and of its applications.

A.B. and A.M. degrees.—For the A.B. degree 45 units of psychology are required, including the following courses: 51, 55, and 60 or 190. It is recommended that students in the Lower Division who plan to major in psychology should take a laboratory science in the freshman year, preferably physics, biology, or physiology. Majors in psychology will ordinarily be expected to take additional courses in science before graduation. The work in psychology should be begun in the sophomore year with courses 51 and 55. Before the beginning of the junior year students are also advised to take Mathematics 20, or Applied Mathematics 1*a* and 1*b*.

For the A.M. degree 45 units of university work are required, including 30 units of psychology in addition to the A.B. requirements. Of

the 30 units required, 9 to 12 are ordinarily devoted to thesis. Only students whose undergraduate work has been above average quality will be accepted as candidates for the A.M. degree in psychology.

Ph.D. degree.—The minimum residence requirement is three years beyond the A.B., of which at least one year must be spent at Stanford. Although extensive course work, or its equivalent in independent study, is required, demonstrated ability to do original research is regarded as the most important criterion of fitness for this degree.

Besides acquiring a fairly broad mastery of the general field of psychology, candidates for the doctorate will be expected to do intensive work in one or more of the following lines: (1) Experimental Psychology (including animal behavior); (2) Educational Psychology (including tests and measurements); (3) Industrial Psychology. A command of statistical methods and a good reading knowledge of French and German should be acquired as early in the student's course as possible. Candidates whose major is in Experimental Psychology will be expected to take a minor or considerable work in one or more of the following sciences: biology, physiology, neurology, physics, or chemistry; those who major in Educational Psychology will ordinarily take a minor in education or in one of the biological sciences; those who major in Industrial Psychology will ordinarily take a minor in economics or education.

For additional information regarding advanced degrees, see the Graduate Study Bulletin.

Ph.D. minor.—Candidates for the Ph.D. degree in other departments who elect a minor in psychology will be expected to complete the equivalent of 45 units of psychology, of which approximately half shall be of graduate character. The required work is laid out for the candidate in terms of fields to be covered, rather than in terms of courses, and a large measure of freedom is allowed in respect to the manner in which the requirements may be met.

Major for the Teacher's Certificate.—The department offers a major in psychology for the Teacher's Certificate, but does not offer a teaching minor. The requirement for teaching major is the same as that for the A.B. in psychology; viz., 45 units.

Laboratories.—Aside from lecture and seminar rooms, offices, and library, the department has a laboratory comprising twenty-eight rooms which are well adapted to experimental purposes. In addition, there is an animal laboratory equipped with the common laboratory animals and with suitable apparatus.

Library.—The sum of $600 a year from the Thomas Welton Stanford Fund has been set aside for the purchase of psychological books and periodicals. A reading room is maintained in the department building, in which the leading texts and periodicals are kept.

Fellowships and Assistantships.—The Dr. C. Annette Buckel Foundation, supplemented by additional support from the Board of Trustees of the University, has provided a research fellowship for the psychology and pedagogy of backward children. A research assistantship for the study of gifted children has also been provided. There are two teaching assistantships in general and experimental psychology, one in abnormal and one in animal psychology.

Reagents.—A special point is made of trying to provide research students with suitable reagents. Accordingly, all advanced students are expected, when possible, to give a certain amount of time to this purpose.

Laboratory and syllabus fees.—A laboratory fee of $5.00 per quarter is charged for courses 55, 131, and 165. For courses 202, 203, 210, 225, and 226 the fee is $3.00 each. For certain other courses a syllabus fee of 50 cents to $2.00 is charged.

50. Mental Hygiene.—A lecture course dealing primarily with the adjustment of the individual to the group, taking into account such problems as emotional maladjustment, personality difficulties and inefficient adaptations. Some attention will be given to methods of learning and study. A Lower Division course. Other students may register only after consultation with the instructor.

3 units, winter quarter (FEARING) . . MWF 9
winter, 36

51. General Psychology.—An introductory survey of the field of mental life. The point of view, methods, general principles of psychology, and the experimentally attested facts of the science are presented. While the primary emphasis is on normal adult psychology and the application of these facts to the control of human behavior, the animal and abnormal fields are also outlined, and an attempt is made to answer the practical questions which the beginner usually has when undertaking a study of psychology. Lectures and exercises. A continued course not open to first-year students, and open to seniors only by special arrangement. Woodworth's Psychology and Titchener's Text-book of Psychology have been used as the chief books of reference. Enrollment limited to 160 students.

(51*a*) 3 units, autumn quarter (DEPARTMENT FACULTY) MWF 11
(51*b*) 3 units, winter quarter (DEPARTMENT FACULTY) MWF 11
(51*a* and *b*) 5 units, spring and summer quarters (MILES, FEARING) MTWThF 11
autumn, 148; winter, 145; spring, 76; summer, 70

55. Experimental Psychology.—A beginning laboratory course dealing entirely with human psychology. The emphasis of this course is primarily on the application of the experimental method to the collection and treatment of psychological data. Opportunity is provided for drill in the technique of scientific observation, including introspection, methods of handling data, and manipulation of simple psychological apparatus. Sensation, perception, affection, attention, association, and learning are systematically studied in the laboratory. Two three-hour laboratory periods and one lecture or conference, with prescribed readings. A laboratory manual is used. Prerequisite: credit for or enrollment in course 51. Prospective majors are advised to take 51 and 55 concurrently and in their second year. Unless special permission is granted, it is required that 55*a* be taken before 55*b* and 55*c*.

3 units, (55*a*) autumn and spring quarters, (55*b*) winter quarter, (55*c*) spring quarter (FEARING) TTh 1:05–4:05; F 1:05–2:05
autumn, 16; winter, 11

60E. Introduction to Statistical Methods.—A demonstration and working course in statistical methods. Data resulting from "chance causes" are secured in a class experiment and are subjected to a complete statistical treatment, including: the determination and evaluation of

measures of central tendency, dispersion, precision, reliability, and differences between means and between distributions; seriation and plotting, curvefitting; correlation. Theory is discussed in connection with practice. Students provide Kelley's or Rugg's text and a polyphase duplex slide-rule (with a B scale). Calculating machines and mathematical tables are available. Some knowledge of algebra is a prerequisite.

5 units, spring quarter (COOVER) MTWThF 10
spring, 22

90. History of Psychical Research.—Lecture course. A canvass of opinion on psychic phenomena is made from the daily press, from the popular magazines, and from professional literature; a detailed study of the more important investigations by psychical researchers is made; canons of evidence and of experimental method are adduced, and the present status of the various psychic phenomena is defined. The psychology of testimony and the nature of scientific proof are considered in connection with the cases of research chosen for study. Assigned reading, class reports. Prerequisite: course 51 or a laboratory course in science.

3 units, spring quarter (COOVER) MWF 11
spring, 9

120. Laboratory Educational Psychology.—An experimental course designed for students of Education. The aim of this course is to provide drill in the methods and technique of observation in experimental psychology, and in the manipulation of psychological apparatus and the treatment of experimental data. Subjects covered include learning, individual differences, perception, attention, fatigue, etc. Prerequisite: course 51 or equivalent. It is suggested that course 165 accompany or precede. Three three-hour laboratory periods and one lecture or conference with prescribed readings. A manual is used.

3 units, autumn and *summer quarters (FEARING, FARNSWORTH) MWF 1:05–4:05
autumn, 5; winter, 10; spring, 4; summer, 10

130. Animal Behavior.—A critical survey of the experimental studies in animal behavior. The general topics of instinct, habit, imitation, retention, transfer of training, etc., will receive detailed consideration. Lectures, demonstrations, recitations, and class reports. Prerequisites: 6 units of General Psychology, 3 units of Experimental Psychology, or an equivalent number of units in a laboratory course in Zoology or Physiology.

4 units, autumn quarter (STONE) MWF 9
autumn, 11

131. Animal Behavior.—A laboratory course devoted primarily to the study of vertebrate animal behavior. A series of minor studies on congenital behavior of young and adult animals, habit formation, endocrine functions, neural functions, etc., will be conducted by the individual students and by the class as a whole. Investigations leading to theses for advanced degrees may be undertaken in this course and continued in subsequent quarters. Prerequisite: 130.

3 units (or more by arrangement), winter quarter (STONE) MWF 1:05–4:05
winter, 4

140. Psychophysical Methods.—A seminar course. Brief review of the development of psychophysical methods; systematic presentation and study of both experimental and mathematical procedures; study of the recognized sources of error in psychological experiments and means of

eliminating or measuring them; application of the standard Phi Gamma methods, using Urban's tables, to typical data, usually obtained by the student in his current laboratory work; discussion of the "psychometric function." Titchener's "Quantitative Manual," Brown and Thompson's "Essentials of Mental Measurement," and the professional journals are used for reference. A one-unit individual report is required. Prerequisites: courses 51, 55, and 60 or 190.

3 units, winter quarter (COOVER) TTh 10

145a. Psychology of Industrial Personnel.—Personnel problems in general; employment; health and safety; psychological tests as used in selection and training; job analysis. Designed primarily to meet the uses of advanced students in economics and engineering. Course 51 recommended.

3 units, autumn quarter (STRONG) MWF 9
autumn, 24

145b. Psychology of Industrial Personnel.—Industrial unrest; esprit de corps; training of employees, foremen and executives; payment plans and methods; meeting industrial risks; research in personnel; coördination and supervision; industrial relations. Designed primarily to meet the needs of advanced students in economics and engineering. Course 51 recommended.

3 units, winter quarter (STRONG) MWF 9
winter, 10

146. Vocational Tests.—Intensive study of tests and measurements as used in selection and training of employees and in vocational guidance. Prerequisites: Psychology 55 and 60E, or Education 192.

4 units, spring quarter (STRONG) MWF 8
spring, 10

151. Advertising.—Brief survey of marketing; consumer analysis; determination of appeals; selection of mediums; preparation of layouts; functions of advertising organizations; sample campaigns. Psychology 51 recommended.

4 units, autumn quarter (STRONG) MWF 8
autumn, 37

152. Selling.—General theory of influencing others, applied particularly to advertising and selling; preparation of sale interview; job specification of a salesman. Intended for students who expect to influence others in business, education, etc. Course 51 recommended.

4 units, winter quarter (STRONG) MWF 8
winter, 55

160. Abnormal Psychology.—A systematic study of the symptomatology of nervous and mental diseases; the institutional care and treatment of the insane; and the applications of psychological aids in the diagnosis and treatment of mental disorders. Lectures, recitations, reports, and clinics. Prerequisite: course 51.

4 units, winter quarter (STONE) MTThF 9
winter, 16

161. Freudian Psychology.—A systematic and historical review of the psychoanalytic movement in psychopathology; the technique of psychoanalysis; and the use of psychotherapy in psychology, education, hygiene, and medicine. Prerequisite: 160 (or admission by special permission).

3 units, spring quarter (STONE) MWF 9
spring, 15

165E. Educational Psychology, Introductory.—A general introductory course intended primarily for teachers and undergraduate students. Lectures, demonstrations, recitations, reports. Prerequisite: course 51 or the equivalent.

4 units, autumn and *summer quarters (STONE, MERRILL) MTThF 11
autumn, 48; summer, 18

170. Mental Deficiency and Delinquency.—A study of mental retardation and its relation to delinquency. Mental traits of the feebleminded; heredity; classification; psychological diagnosis. Results of experimental investigation of higher mental integrations. Prerequisite: courses 51 and 55.

3 units, summer quarter (MERRILL) MWF 9
summer, 18

175. Psychical Research.—A library research course leading to a typewritten report on any phase of psychical research of special interest to the student. The more authoritative sources will be examined by the student. This course may be preparatory to research. No prerequisites; permission to register required.

autumn, winter, and spring quarters (COOVER) By arrangement
autumn, 5; winter, 3; spring, 2

180. Psychical Research.—A research course offering opportunity for experimental attack upon problems in the field of psychical research for which the laboratory equipment is adequate. Registration by permission.

autumn, winter, and spring quarters (COOVER) By arrangement
spring, 2

190. Elementary Statistical Method.—A study will be made of the various kinds of statistical series and the properties of each. The purpose of the first part of the course will be to discover what constitutes the significant features of a body of data. Opportunity to obtain practice in the computation of the important constants of distributions will be given; also in the use of calculating machines and other aids to computation. The approach will be inductive, starting with measures and having as its object the discovery of the statistical resources which are available for determining the significance of data.

4 units, autumn and *summer quarters (KELLEY, ———) MTThF 8

195. Suggestion.—A seminar. A study of the various phenomena which in the literature are comprehended under the term "suggestion"; the classification of these phenomena according to the psychological principles; the results of research; the relation of suggestion to the subconscious, dissociated, abnormal states of mind. Reading, reports, discussion, a one-unit individual typed report. Prerequisite: 18 or more units of psychology. Registration by permission.

3 units, spring quarter (COOVER) [Not given in 1924–25]

200. Motives.—Views of Hobbes, Adam Smith, Bentham, Mills, Bain, etc.; survey of present theories; motivation in education, selling, personnel work and political life; social control of motivation; application to economic theory. Open to qualified advanced students in psychology and economics.

3 units, spring quarter (STRONG) MWF 9
spring, 7

202. Advanced Experimental Psychology.—Laboratory work with human subjects covering a variety of topics, including complex qualitative

problems and quantitative investigations. The course is designed to acquaint students with psychological apparatus, instruments and means of measurement as well as to provide a first-hand opportunity for them to perform some experiments rather intensively. One lecture or conference with prescribed readings and two three-hour laboratory periods. Prerequisite: Psychology 51 and 55; statistical methods (60 or 190) must accompany or precede.

3 units, autumn and winter quarters (MILES) MW 1:05–4:05, F 2:05–3:05
autumn, 3

203. Advanced Laboratory Psychology.—Laboratory work with human subjects, covering intensively a small group of topics which include complex, quantitative and qualitative experiments. The course is designed to acquaint students with psychological apparatus and processes. One lecture or conference with three three-hour laboratory periods. Psychology 51 and 55 prerequisites. Statistical methods (60 or 190) should accompany or precede this course.

2 units, summer quarter, first half (MILES) MTWTh 1:05–4:05
summer, 6

205a. Advanced Human Psychology.—Beginning with a brief consideration of their historical setting, the topics of sensation, perception and attention will be systematically covered through a review of the experimental literature. Open to qualified graduates and to senior majors.

3 units, winter quarter (MILES) MWF 10
winter, 3

205b. Advanced Human Psychology.—Memory, feeling, action, and emotion are the chief topics considered in a systematic discussion of research literature of these subjects. Open to qualified graduates and to senior majors.

3 units, spring quarter (MILES) MWF 10
spring, 7

205c. Advanced Human Psychology.—The psychology of imagination and the thought processes will be considered in the light of their historical setting, and a resume will be made of the research literature on these topics. A written report will be a part of the requirement for credit. Open to qualified graduates and to senior majors. Four lectures or conferences per week.

2 units, summer quarter, first half (MILES) MTWTh 10
summer, 15

210. The Learning Process.—A laboratory course providing the data and the opportunity for a qualitative and quantitative study of the development of efficiency in various learning situations involving different levels of complexity in materials and mental processes. Special attention to the statistical treatment of results and to graphic presentation, analysis of processes, and the morphology of skill. One hour seminar for discussion and reports of reading, and two laboratory periods weekly. Prerequisites: courses 51 and 55.

3 units, autumn quarter (COOVER) Seminar W 1:05; Lab. MF 1:05–4:05
autumn, 10; winter, 2

215a. Educational Psychology, Advanced.—Original endowment; mental development; individual differences in relation to heredity, sex, and environment. Lectures and class reports. Prerequisites: courses 51, 55, 165, and 60 or 190.

4 units, winter quarter (TERMAN) MWF 11

215b. Educational Psychology, Advanced.—A critical survey of the literature of learning, formal discipline, work and fatigue, with special reference to the school program. Lectures and class reports. Prerequisites: courses 51, 55, 165, and 60 or 190. It is recommended that course 210 also precede.

4 units, spring quarter (TERMAN) MWF 11
winter, 13; spring, 12

220. Advanced Statistical Methods.—This is a continuation of course 190 and will deal primarily with series of related measures. The statistical methods of analysis of correlated data and the means of combining several measures into total scores will be treated, with particular application to educational and mental test data and problems. Prerequisite: course 190 or 60.

4 units, winter and *summer quarters (KELLEY) MTThF 8

221. Advanced Statistical Methods.—This course is a continuation of course 220. It deals especially with problems in multiple correlation and with the statistical treatment of known linear, skew, and categorical data. Course 220 is a prerequisite.

4 units, winter quarter (KELLEY) [Not given in 1924–25]

225. Mental Tests.—An introductory course dealing with the psychological principles of mental testing, test procedure, Binet and group tests, and practical applications. Prerequisite: courses 51 and 60 or 190. Course 55 must accompany or precede.

4 units, autumn and *summer quarters (MERRILL) MWF 2:05–4:05
autumn, 6; summer, 10

226. Mental Tests.—Essentially a laboratory course, with one or two lectures weekly. Important types of mental tests will be subjected to experiment and critically evaluated. Course 225 is a necessary prerequisite.

4 units, winter quarter (MERRILL) MWF 2:05–4:05
winter, 5

230. Association of Ideas.—A seminar. The purpose is to clarify the student's conceptions of the ways in which mental elements are connected or combined or fused. Topics covered include the English "school" of association psychology and its dominance of popular psychology today; results of laboratory research; modern formulations from experimental results; importance to psychology; bearing upon learning and school practice. Assigned reading, reports, discussion, and a one-unit individual typewritten report. Registration by permission.

3 units, autumn quarter (COOVER) Th 7:30–9:30
autumn, 3

231. Method of Experiment.—A seminar. An examination of scientific method and its applications to various types of research in experimental psychology; a study of typical researches; applications to present problems; inspection of statistical procedures appropriate to the various types of experimental procedures; consideration of criteria of validity of results. A one-unit typed report is required. Prerequisites: courses 55 and 60 or 190. Registration by permission.

3 units, winter quarter (COOVER) Th 7:30–9:30

240. Advanced Problems in Animal Behavior.—An intensive study of the more technical problems and investigation in the field of congenital

behavior, sensory functions, and the physiological aspects of the learning process. Prerequisites: 130 and 131 (or special permission).
3 units, spring quarter (STONE) By arrangement
spring, 1

245. Psychological Clinic.—Practical experience in the use of tests in the diagnosis of defective and exceptional children. Practice in gathering data for case study of an individual. Observation of treatment and disposition of cases at the Juvenile Court and County Health Center. Prerequisites: courses 51, 55, and 225.
autumn and winter quarters (MERRILL) By arrangement
autumn, 2; winter, 2

250. Experimental Problems.—A minimum of eight hours' work in the psychological laboratory per week, and thesis. For well qualified graduates and senior majors.
2 units, winter and spring quarters (MILES) By arrangement
spring, 4; summer, 1

255. Mind and Body.—A seminar course. The problem of the mind-body relationship is first given a brief historical consideration. The psychological postulate of "psychophysical parallelism" is critically examined. The pertinent data of psychology, pathopsychology, and medical practice with mental disorders (including the aphasias) are collected and studied. The phenomena of hypnotism and the dissociation of personality are reviewed, and Freudian psychoanalysis is briefly but critically examined from the standpoint of physiological psychology. A one-unit individual typed report is required. Prerequisite: course 51.
5 units, spring quarter (COOVER) [Not given in 1924–25]

267. Mental Development.—Seminar course. A critical survey of the most important studies of infancy, childhood, adolescence, and senescence. Intended primarily for major students in psychology or education who are in the second or third year of graduate work. A three-quarter course. Alternates with course 268.
2 units, autumn, winter, and spring quarters (TERMAN)
[Not given in 1924–25]

268. Psychology of Endowment.—A seminar and thesis course. Tests of general intelligence, special abilities, character and personality; the psychology of genius; mental inheritance; race differences, etc. Intended primarily for major students of psychology or education who are in the second or third year of graduate work. A three-quarter course. Alternates with course 267.
2 units, autumn, winter, and spring quarters (TERMAN) TTh 4
autumn, 9; winter, 6; spring, 8

270. Psychometry.—Essentially a research course. Attention will be given to the analysis of mentality and to the measurement of interest, of special sensory capacity, and of certain specific habits and skills. The bearing upon problems of guidance will be stressed. Admission by consent of the instructor.
4 units, winter quarter (KELLEY) [Not given in 1924–25]

275. Seminar in Vocational Psychology.—Registration by permission.
autumn, winter, and spring quarters (STRONG) By arrangement
autumn, 3; winter, 7; spring, 7

280. Seminar.—Open to advanced graduate majors by permission.
1 or 2 units, autumn, winter, and spring quarters (TERMAN) W 7:30–9:30
autumn, 10; winter, 10; spring, 9

285. Current Literature of Experimental Psychology.—Seminar. Open to graduates only.
1 unit, winter and spring quarters (Miles) By arrangement

290. Research.
(Department Faculty) By arrangement
autumn, 5 (4 groups); winter, 5 (3 groups); spring, 7 (4 groups); summer, 5 (5 groups)

PUBLIC HEALTH NURSING

Louis S. Olsen, Instructor in Public Health.
[Flora May Fearing, Instructor in Citizenship.]
[Franklin Smith Fearing, Instructor in Psychology.]
[Margaret Mulford Lothrop, Instructor in Economics.]

117. Economics.—Problems of Child Welfare.
2 units (Lothrop) TTh 10

119a. Political Science.—Quantitative measurement in public administration.
2 to 4 units (F. M. Fearing) T 2:05–4:05

1. Public Health.—Health Department Administration. Lectures on the activities, organization, and powers of public health departments, supplemented by laboratory and field work.
2 units, summer quarter (Olsen) MW 1:05
summer, 13

51. Psychology.—General Psychology.
5 units (F. S. Fearing) MTWThF 11

ROMANIC LANGUAGES

Oliver Martin Johnston, Clifford Gilmore Allen, Aurelio Macedonio Espinosa, Professors.
Régis Michaud, Antonio García Solalinde, Acting Professors (Summer Quarter).
Stanley Astredo Smith, Associate Professor.
Frederick Anderson, Alfred Coester, Assistant Professors.
William Leonard Schwartz, Instructor.
Angel D. Aguerrevere, Frederick William Bachmann, Joseph Brunet, Mary Katherine Chase, Elizabeth Eakin, Carlos E. P. Guerra, Carl Henninger, Collice Henry, Winifred Johnston, John M. McClelland, Georges Nivon, Ida Stauf, Ernest H. Templin, Teaching Assistants.

The undergraduate courses in the Romanic Languages are planned so as to give students an intimate acquaintance with the modern forms of the languages spoken in the principal Neo-Latin countries. To this end systematic attention is paid to pronunciation, reading, syntax, and conversation. In the higher courses special emphasis is laid on the study of literature. In order to give students an opportunity to become

familiar with the spoken idioms, the majority of the courses are conducted in the language which forms the object of study.

The department offers advanced courses leading to the degree of Master of Arts and Doctor of Philosophy. The library contains adequate material for graduate courses in French and Spanish literature and philology. The Dante collection is also adequate for graduate work in this subject. The department also accepts candidates for certification as high-school teachers of French and Spanish in California and provides courses to meet the special needs of such candidates. Either French or Spanish may be selected as a major subject. In addition to the elementary course, which does not count as a part of the requirement, majors in French or Spanish must complete the following courses for the degree of Bachelor of Arts:

(1) Second-year course (15 units);
(2) Advanced Composition and Conversation (9 units);
(3) Six courses in literature or philology in the major subject.

These six courses must include an outline course in the literature of the major subject (A140 for French majors and B140 for Spanish majors, or their equivalent). It is desirable that the outline course precede the other literary courses in the subject.

Major students must register each quarter for at least one course in the major subject. This provision is intended to prevent students from crowding major requirements into certain quarters and from registering as French or Spanish majors in other quarters without taking any work in the major subject.

The total number of units required for the degree of A.B. will be approximately 43 or 44 units, exclusive of the elementary course.

The Teacher's Recommendation.—The requirements for the teacher's recommendation are the same as for the Bachelor's degree with the exception of the fact that the following courses must be included:

A80 and A200E for majors in French.
B80 and B200E for majors in Spanish.
A reading knowledge of Latin and German is highly desirable.

Some of the courses scheduled for the Summer Quarter extend through only one term of the quarter. Others extend through both terms, but credit will be granted for work done in either term.

First-year French and Spanish are given by competent instructors under the supervision of the Department Faculty, and a fee of $7.50 per quarter is charged. University credit is given for this work.

Students who are required to take French A3*a* or Spanish B3*a* during the Autumn Quarter may begin Second-year French or Spanish (A21 or B21) in the Winter Quarter.

Students who begin Second-year French or Spanish in the Winter Quarter will be admitted into advanced courses in French or Spanish upon completion of A22 or B22 with a grade of A in the Spring Quarter.

A. French

I. Elementary and Intermediate Courses

A1. Elementary French.—Training in pronunciation by means of phonetic symbols. Oral work. The elements of French grammar; the

regular verb and the verbs *avoir* and *être;* Fraser and Squair, French Grammar, 26 lessons. Reading from Olmsted and Barton, Elementary French Reader.

5 units, autumn and *winter quarters
(autumn) (BACHMANN, W. JOHNSTON, BRUNET) MTWThF 9, 11
(winter) (CHASE) MTWThF 9
autumn, 107 (4 sections); winter, 39 (2 sections)

A2. Elementary French (continued).—Oral work continued. Study of the irregular verbs. Fraser and Squair, French Grammar, to end of Part I. Reading from Olmsted and Barton, Elementary French Reader. Prerequisite: A1, or one year of high-school French.

5 units, winter and *spring quarters
(winter) (BRUNET, BACHMANN, NIVON) MTWThF 9, 11
(spring) (MCCLELLAND) MTWThF 9, 11
winter, 66 (3 sections); spring, 18

A3. Elementary French (continued).—Thorough review of grammar. Oral work. Reading: About, Le Roi des Montagnes. Prerequisite: A2, or equivalent.

5 units (autumn) (STAUF); (spring) (BRUNET, BACHMANN, NIVON) MTWThF 9, 11
autumn, 17; spring, 59 (3 sections)

A3a. Elementary French, Special Course.—Grammar and Composition. Fraser and Squair, French Grammar.

Intended for two classes of students: (1) for those who are credited with one year and a half of high-school French; (2) for those who are technically entitled to enter Second-year French, but whose preparation is insufficient. (See the last two paragraphs of the general announcement above.)

3 units, autumn quarter (CHASE) MWF 9
autumn, 26

A21. Second-Year French.—Grammatical review. Composition, Reading: Course conducted as far as possible in French. Daudet, Lettres de Mon Moulin (Robert); Molière, Précieuses ridicules. Prerequisite: A3 or two years of high-school French.

5 units, autumn and winter quarters (autumn, SCHWARTZ, ANDERSON) MTWThF 9, 10; (winter, STAUF) MTWThF 9
autumn, 62; winter, 28

A22. Second-Year French (continued).—Grammar and Composition. Reading: Selections from Musset; Zadig. Conducted as far as possible in French. Prerequisite: A21, or three years of high-school French.

5 units, winter quarter (SCHWARTZ, ANDERSON) MTWThF 9, 10
spring quarter (STAUF) MTWThF 9
winter, 54 (2 sections)

A23. Second-Year French (continued).—Grammar and Composition. Reading: Le Monde où l'on s'ennuie and Curé de Tours. Conducted in French. Prerequisite: A22, or equivalent.

5 units, spring quarter (ANDERSON, SCHWARTZ) MTWThF 9, 10
spring, 52 (2 sections)

A26. French Scientific Reading.—Intended for engineers. Prerequisite: A3.

3 units, autumn quarter (STAUF) MWF 11
autumn, 31

A27. French Scientific Reading (continued).

3 units, winter quarter (STAUF) MWF 11
winter, 21

A28. French Scientific Reading (continued).
3 units, spring quarter (STAUF) MWF 11
spring, 21

A30. Directed Reading.
1 or 2 units per quarter
autumn, 25 (2 groups); winter, 22; spring, 33; summer, 4

A40. Exercices Oraux.—Texts illustrating French life will be memorized to enlarge vocabulary. Oral review of grammar to facilitate conversation in correct French. Prerequisite: A3, or equivalent. Students should consult the instructor before registering in this course.
2 units (SCHWARTZ) MWF 10
autumn, 10

A80. French Pronunciation.—Training in French pronunciation by means of practical phonetics. This course is of special interest to prospective teachers. Prerequisite: A3, or the equivalent.
2 units, autumn quarter (SMITH) MW 2:05
autumn, 11

II. ADVANCED AND GRADUATE COURSES

A101. Commercial French.—Letter writing and introduction to commercial vocabulary: Malakis, Le Français du Commerce. Prerequisite: A23 or equivalent.
3 units (SCHWARTZ) [Not given in 1924–25]

A111. Third-Year French Composition and Conversation.—Composition based on French texts. Outside reading and written reports in French. Conducted in French. Prerequisite: A23, or four years of high-school French.
3 units, autumn quarter (SCHWARTZ, SMITH) MWF 8, 11
autumn, 34 (2 sections)

A112. Third-Year French Composition (continued).—Prerequisite: A111, or equivalent. Mansion, Extracts for French Composition.
3 units, winter quarter (SCHWARTZ, ANDERSON) MWF 8, 11
winter, 20 (2 sections)

A113. Third-Year French Composition (continued). Prerequisite: A112, or equivalent. Chéron and Schenk, Handbook of French Correspondence.
3 units, spring quarter (SCHWARTZ) MWF 8
spring, 8

A121. Fourth-Year French Composition.—Translation of connected English prose into French. Original composition. Dictation. Prerequisite: A113. French Composition (Moraud).
3 units, winter quarter (SMITH) MWF 10
winter, 3

A122. (Continuation of A121.)
3 units, spring quarter (SMITH) MWF 10
spring, 10

A123. (Continuation of A122.)
2 units, summer quarter (MICHAUD) TTh 9
summer, 6

A130. French Classics.—Reading in class of masterpieces of French literature. Prerequisite: A23, or equivalent.
3 units (SMITH) MWF 10
autumn, 23

A131. Renan.—Reading and interpretation of Renan's Souvenirs de Jeunesse.
2 units, autumn quarter (ANDERSON) TTh 11
autumn, 25

A132. Rousseau.—Reading and interpretation of selections from Jean Jacques Rousseau.
2 units, winter quarter (ANDERSON) TTh 9
winter, 33

A140. Outline Course in the History of French Literature.—Strachey: Landmarks in French Literature. Vreeland and Michaud: Anthology of French Prose and Poetry. Outside reading. Conducted in English. Prerequisite: A23, or the equivalent.
5 units, autumn quarter (ANDERSON) MTWThF 9
3 units, summer quarter (MICHAUD) TWF 10
autumn, 24; summer, 13

A141. The French Drama.—Lectures on the development of the French drama, with special emphasis on the nineteenth century. Outside reading and reports. Prerequisite: A23, or equivalent.
3 units (SMITH) [Not given in 1924–25]

A142. The French Novel.—Lectures in French on the history of French fiction. Emphasis will be placed on the movements of the nineteenth century. Prerequisite: A23, or equivalent.
4 units, spring quarter (SCHWARTZ) MWF 10
spring, 8

A143. French Lyric Poetry.—Course conducted in French. Preliminary study of medieval poetical forms, leading to extensive reading in class of nineteenth century poets. Intended to familiarize students with the best-known masterpieces. Textbooks: Oxford Book of French Verse, Henning's French Lyrics of the Nineteenth Century. Prerequisite: A23, or equivalent.
4 units (SCHWARTZ) [Not given in 1924–25]

A145. French Historians.—Lectures on French Historians of the nineteenth century. Reading of selections. Conducted in French. Prerequisite: A23, or its equivalent.
3 units, winter quarter (ANDERSON) MWF 9
winter, 12

A150. Hugo, his period, life, and works. Prerequisite: A140, or the equivalent.
3 units (SCHWARTZ) [Not given in 1924–25]

A151. Molière.—The complete works will be read, with special attention to the characters in the plays. Readings and reports. Prerequisite: A23, or equivalent.
4 units, winter quarter (SCHWARTZ) MTWTh 10
winter, 8

A152. Literary Criticism.—Lectures on the history of literary criticism in France. A careful study of Madame de Staël; De l'Allemagne, and various works by Schérer, Taine, and Renan. Prerequisite: A23, or equivalent.
4 units (ANDERSON) [Not given in 1924–25]

A161. French Literature in the Seventeenth Century.—Lectures on the formation of the classic ideal in France and on the main movements, authors, and works of the classic age. Outside reading and reports. Conducted in French. Prerequisite: A23, or the equivalent.
3 units, winter quarter (SMITH) MWF 11
winter, 6

A162. French Literature in the Eighteenth Century.—A study of the main ideas and tendencies of the period as illustrated by the lives and works of its most important authors. Outside reading and reports. Conducted in French. Prerequisite: A23, or the equivalent.
3 units (SMITH) [Not given in 1924–25]

A163. The Romantic Movement in France.—A study of the main features of romanticism as manifested in the lives and works of the forerunners and of the most important representatives of the French romantic movement. Lectures in French. Outside reading. Class discussions. Prerequisite: A161, or equivalent.
3 units (SMITH) [Not given in 1924–25]

A164. Sixteenth Century.—Reading and interpretation of representative selections. Lectures and reports.
2 units, winter quarter (SMITH) MW 3:05
winter, 8

A170. Corneille.
3 units, autumn quarter (JOHNSTON) T 2:05–4:05
autumn, 8

A200. Problems of Teaching French.—Practice in the use of the phonetic method as a means of teaching French pronunciation, review of French grammar, lectures on methods of teaching French, pedagogical bibliography, and suggestions regarding available textbooks. Practice teaching.
3 units, winter quarter (JOHNSTON) MWF 3:05
2 units, summer quarter, first half (JOHNSTON) TWThF 2:05
autumn, 1; winter, 10; summer, 8

III. PRIMARILY FOR GRADUATES

A201. Introduction to the Study of Old French.—Reading and interpretation of old French texts selected from Bartsch-Wiese, Chrestomathie de l'Ancien Français, with a study of Old French Phonology and Morphology.
3 units (JOHNSTON) [Not given in 1924–25]

A202. French Historical Grammar.—Lectures on Old French Phonology and Morphology.
3 units, summer quarter (JOHNSTON) TWF 3:05
summer, 4

A203. French Historical Syntax.—The most important phases of modern French syntax will be studied from an historical point of view. This course is intended primarily for teachers.
2 units (JOHNSTON) [Not given in 1924–25]

A204. Old French Literature.—French literature from the beginnings to the fifteenth century, with emphasis on the literary and social traits.
2 units, summer quarter, second half (JOHNSTON) TWThF 2:05
summer, 11

A205. French Arthurian Romances.—Lectures on the romances of the Round Table, the legend of the Holy Grail, and the legend of Tristan and Iseult. Outside reading and reports.
3 units (JOHNSTON) [Not given in 1924–25]

A234. Contemporary French Literature.—New Currents of Thought. Lectures in French.
3 units, summer quarter (MICHAUD) TWTh 11

A240. Graduate Thesis.
3 to 5 units per quarter
autumn, 2; summer, 1

A250. French Seminary.—Floire et Blancheflor.
1 unit, autumn quarter (Johnston) W 3:05
1 unit, winter quarter (Johnston) Th 3:05
autumn, 2; summer, 2 (2 groups)

A251. French Seminary.—The Old French Epic.
3 units (Johnston) [Not given in 1924–25]
winter, 6

B. Spanish

I. Elementary and Intermediate Courses

B1. Elementary Spanish.—The elements of grammar, composition and conversation. Texts: Espinosa and Allen, Beginning Spanish, lessons I-XXV; Espinosa, First Spanish Reader, I.
5 units, autumn and winter quarters
(autumn) (Templin, Henninger, Aguerrevere) MTWThF 8, 9, 11
(winter) (Henninger) 9
autumn, 127 (5 sections); winter, 50 (2 sections)

B2. Elementary Spanish (continued).—Texts: Espinosa and Allen, Beginning Spanish, Lessons XXVI-XLVII; Espinosa, First Spanish Reader, II.
5 units, winter and spring quarters
(winter) (Templin, Aguerrevere, Eakin) MTWThF 8, 9, 11
(spring) (Henninger) 9
winter, 104 (4 sections); spring, 44 (2 sections)

B3. Elementary Spanish (continued).—Texts: Espinosa and Allen, Beginning Spanish Lessons XLVIII-LXVIII; Quintero, La Muela del Rey Farfán; Allen, Fábulas y Cuentos.
5 units, autumn and spring quarters
(autumn) (Templin) MTWThF 9
(spring) (Templin, Aguerrevere, Eakin) MTWThF 8, 9, 11
autumn, 13; spring, 88 (4 sections)

B3a. Elementary Spanish, Special Course.—Grammar and Composition. A rapid review of Espinosa and Allen, Beginning Spanish, Lessons VII-LX. Intended for two classes of students: (1) for those who are credited with one year and a half of high-school Spanish; (2) for those who are technically entitled to enter second-year Spanish, but whose preparation is insufficient. (See the last two paragraphs of the general announcement above.)
3 units, autumn quarter (Eakin) MWF 9
autumn, 42

B21. Second-Year Spanish.—Review of grammar, with abundant practice in conversation and composition. Reading aloud in Spanish, with careful drill in pronunciation. Reading and interpretation of Spanish texts, with a minimum of translation. Conversation in Spanish based on the texts read. Bi-monthly tests in translation and written reproduction of Spanish texts or short stories. Conducted mainly in Spanish.

Composition and conversation (TTh). Text: Espinosa-Allen, Elementary Spanish Grammar, lessons XV-XLIX.

Reading, pronunciation, and conversation (MWF). Texts: Benavente, El Príncipe que todo lo aprendió en los Libros; Palacio Valdés, La Hermana San Sulpicio.
5 units, autumn quarter (Allen, Coester, Templin) MTWThF 9, 11;
winter quarter (Templin) MTWThF 9
autumn, 84 (3 sections); winter, 39

B22. Second-Year Spanish (continued).—Composition and conversation (TTh). Texts: Espinosa, Elementary Spanish Composition and Conversation. For grammar review and reference, Espinosa-Allen, Elementary Spanish Grammar. Original exercises in Spanish composition. Final examinations on all regular and irregular verbs and the use of the subjunctive.

Reading, pronunciation, and conversation (MWF). Texts: Martínez Sierra, Teatro de Ensueño; Pardo Bazán, El Tesoro de Gastón.

5 units, winter (ALLEN, COESTER); spring (TEMPLIN) MTWThF 9, 11
winter, 59 (2 sections); spring, 19

B23. Second-Year Spanish (continued).—Composition and conversation (TTh). Oral drill in conversation and the mastery of a correct pronunciation. Short stories, and original compositions. Advanced Spanish grammar. Texts: Seneca, Spanish Composition.

Reading and interpretation of Spanish texts (MWF). Texts: Martínez Sierra, Canción de Cuna; Coester, Cuentos de la América Española.

5 units, spring quarter (HENRY, COESTER) MTWThF 9, 11
spring, 51 (2 sections)

B26. Spanish Scientific Reading.—Intended for engineers. Prerequisite: B3.

3 units, autumn quarter (GUERRA) MWF 11
autumn, 34

B27. Spanish Scientific Reading.—Continued.

3 units, winter quarter (GUERRA) MWF 11
winter, 41

B28. Spanish Scientific Reading.—Continued.

3 units, spring quarter (GUERRA) MWF 11

B30. Directed Reading.

1 or 2 units per quarter
autumn, 27 (3 groups); winter, 32 (2 groups); spring, 22 (2 groups); summer, 1

B80. Spanish Pronunciation.—Lectures and practical exercises in the elements of Spanish pronunciation. Open to all students of Spanish. This course should be taken by Spanish majors in the first year.

2 units, winter quarter (ESPINOSA) TTh 10
winter, 45

II. ADVANCED AND GRADUATE COURSES

B101. Commercial Spanish.—Letter writing and introduction to commercial practice. Prerequisite: B23. (Note: Students electing B101 are expected to take B102.)

3 units, autumn quarter (COESTER) MWF 9
autumn, 23

B102. Commercial Spanish.—Letter writing continued. Study of commercial documents. Writing of advertisements and circular letters. Prerequisite: B101, or equivalent.

3 units, winter quarter (COESTER) MWF 9
winter, 16

B111. Advanced Spanish Composition and Conversation.—Review of grammar, with reading and interpretation of literary texts. Oral and written reproduction of short stories and literary material. Original exercises in composition. Prerequisites: courses B21, B22, B23.

3 units, autumn quarter (ESPINOSA) MWF 9, 11
autumn, 44 (2 sections)

B112. Advanced Spanish Composition and Conversation (continued). —Prerequisite: B111.
3 units, winter quarter (ESPINOSA) MWF 11
winter, 22

B113. Advanced Spanish Composition and Conversation (continued). —Translation into Spanish of select English prose. Prerequisite: B112.
3 units, spring quarter (ESPINOSA) MWF 11
spring, 26

B121. Curso de composición y estilo.—En este curso se estudian algunas obras literarias en prosa para modelos de estilo. Composiciones originales cada semana. Gramática de referencia: Bello-Cuervo, Gramática de la Lengua Castellana. Prerequisite: B113.
3 units, winter quarter (ESPINOSA) MWF 9
winter, 7

B122. Curso de composición y estilo (continuación).
3 units (ESPINOSA)

B123. Curso de composición y estilo (continuación).
5 units, summer quarter (SOLALINDE) MTWThF 9
summer, 15

B130. Spanish Classics.—A study of the principal authors of the classical period. Representative texts will be read of Cervantes, Lope de Vega, Calderón, Alarcón, Tirso de Molina, as well as selections from Ford's A Spanish Anthology. Open to students who have completed courses B21, B22, B23, or their equivalents.
4 units, autumn quarter (ALLEN) MTWF 11
4 units, summer quarter MTWF 9
autumn, 31; summer, 12

B138. Modern Spanish Dramatists.—A study of Galdós, Benavente, Martínez Sierra and others. Lectures in English with assigned readings in English or Spanish. Open to juniors and seniors in all departments.
2 units, autumn quarter (ESPINOSA) TTh 10
autumn, 35

B140. Spanish Literature.—Outline course. Fitz-Maurice Kelly: Historia de la literatura española. Lectures and recitations. Prerequisite: B130.
3 or 5 units, winter quarter (ALLEN) MWF 2:05
winter, 22

B141. Teatro Español Contemporáneo.—(*a*) Breve resumen de la historia del teatro español en el siglo XIX: Rivas, Gutiérrez, Zorrilla, Bretón de los Herreros, Ayala, Echegaray. (*b*) Estudio de los dramáticos contemporáneos, con atención especial a Galdós, Jacinto Benavente, los Quinteros, Eduardo Marquina y Martínez Sierra. Prerequisites: B21, B22, B23, or their equivalents.
3 or 5 units (ESPINOSA) [Not given in 1924–25]

B142. Modern Spanish Novel.—A study of the modern Spanish novel and its relation to the development of the novel in France and other European countries. Lectures and collateral readings. Prerequisites: B21, B22, B23, or their equivalents.
3 units, summer quarter (ALLEN) MWF 8
summer, 20

B143. Early Spanish Lyric Poetry.—A study of the various schools of lyric poets, as the Galacian, the Italian, the National, etc. Prerequisite: B130.
3 units (ALLEN) [Not given in 1924–25]

B144. Modern Spanish Lyrics.—Prerequisites: B21, B22, B23, or their equivalents.
3 units, winter quarter (ALLEN) MWF 11
winter, 9

B146. Literatura Española Contemporánea.—Novelas, teatro y poesías liricas. Conferencias y lecturas.
3 units, summer quarter (SOLALINDE) MWF 10
summer, 26

B147. La España de Hoy.—Conferencias con proyecciónes. (Illustrated lectures). Open to all students.
No credit, summer quarter (SOLALINDE) T 2:05
summer, 11

B153. Spanish-American Literature.—General outline. The writings of Spanish Americans will be studied from the point of view of the nationality of the writers and as the product of differing political, social, and geographic conditions. Prerequisite: B23.
3 units, autumn quarter (COESTER) MWF 10
autumn, 10

B154. Argentine Literature.—The aim of this course is to acquaint the student with the history and mental characteristics of the Argentines through the medium of their own literary productions. Prerequisite: B23.
3 units, winter quarter (COESTER) MWF 10
winter, 7

B155. The Modernista Movement in America and Spain.—Rubén Darío, Gutiérrez Nájera, Silva, Chocano and their influence on Spanish lyric poets since 1898. Prerequisite: B111, or equivalent.
3 units, spring quarter (COESTER) MWF 10
spring, 9

B162. Spanish Literature in the Seventeenth Century.
3 units (ALLEN) [Not given in 1924–25]

B188. Fonética Española.—Conferencias y ejercicios prácticos. Navarro Tomás, Manual de Pronunciación Española.
3 units (ESPINOSA) [Not given in 1924–25]

B200. Problems of Teaching Spanish.—A consideration of the important questions of Spanish pronunciation, grammar, reading, and literary interpretations, together with a discussion of the general questions of methods of teaching as applied to the teaching of elementary and advanced Spanish. Pedagogical bibliography and school texts. Practice teaching.
3 units, spring quarter (ESPINOSA) MWF 2:05
spring, 17

III. PRIMARILY FOR GRADUATES

B201. Introduction to the Study of Old Spanish.—Lectures on old Spanish Phonology and Morphology, with linguistic exercises based on El Cantar de mío Cid. Ford, Old Spanish Readings.
3 units (ESPINOSA) [Not given in 1924–25]

B202. Spanish Historical Grammar.—Lectures and study of Old Spanish texts.
3 units (ESPINOSA) [Not given in 1924–25]

B204. Old Spanish Literature.—Spanish literature from the earliest times to the beginning of the fifteenth century. Lectures, reading of texts, and assigned topics.
3 units (ALLEN) [Not given in 1924–25]

B241. Origins of Spanish Drama.—A history of the drama from the earliest times to its full development with Lope de Vega. Lectures and collateral reading.
3 units (ALLEN) [Not given in 1924–25]

B240. Graduate Thesis.
3 to 5 units per quarter
winter, 2; summer, 4

B250. Spanish Seminary.—Old Spanish Ballads. Lectures and investigations on special topics.
3 units, winter quarter (ESPINOSA) MW 1:05
winter, 7; spring 2

B251. Calderón.—Lectures and assigned topics.
3 units (ALLEN) [Not given in 1924–25]

B252. Lope de Vega.—Lectures and assigned topics.
3 units, autumn quarter (ALLEN) Th 2:05–4:05
autumn, 5; winter, 1

B253. The Classical Dramatists.—Tirso de Molina, Ruiz de Alarcón, Rojas Zorrilla and Moreto.
3 units (ALLEN) [Not given in 1924–25]

B254. Cervantes.—Lectures and assigned topics.
3 units, summer quarter (ALLEN) M 2:05–4:05
summer, 11

C. ITALIAN

I. ELEMENTARY AND INTERMEDIATE COURSES

C1. Elementary Italian.—Wilkins, First Italian Book; Wilkins, Italia.
5 units, autumn quarter (STAUF) MTWThF 11
autumn, 18

C2. Elementary Italian (continued).—Grandgent's Italian Grammar. Conversation. Wilkins and Altrocchi, Italian Short Stories. Goggio, Due Commedie Moderne. Prerequisite: C1, or equivalent.
5 units, winter quarter (STAUF) MTWThF 11
winter, 13

C3. Elementary Italian (continued).—Review of Grammar. Composition and Conversation. Goldoni, La Locandiera. Manzoni, I Promessi Sposi (edit. Geddes and Wilkins). Prerequisite: C2, or equivalent.
5 units, spring quarter (STAUF) MTWThF 11
spring, 8

C21. Second-Year Italian.—Review of grammar. Composition and conversation. Reading of selected prose and poetry of the nineteenth and twentieth centuries, with a minimum of translation and particular attention to pronunciation. Collateral reading and reports. Prerequisite: C3, or equivalent.
3 units, autumn quarter (SMITH) MWF 3:05
autumn, 3

C22. Second-Year Italian (continued).—Prerequisite: C21, or equivalent.
3 units, winter quarter (SMITH) MWF 4:05
winter, 3

C23. Second-Year Italian (continued).—Prerequisite: C22, or equivalent.
3 units, spring quarter (SMITH) MWF 4:05
spring, 2

C30. Free Reading.
autumn, 2; winter, 1; spring, 1

II. ADVANCED AND GRADUATE COURSES

C140. Lectures on Italian Literature (in English).—Lectures on twelve Italian writers. Reading of their works in translation. No prerequisites.
2 units, spring quarter (ANDERSON) TTh 11
spring, 37

C150. Dante and the Divine Comedy (in English).—Reading and interpretation of the Divine Comedy (in translation), lectures on Dante and the Divine Comedy, and the principal problems of medieval life and thought reflected in the poem. Outside reading and reports. Open to juniors and seniors in all departments.
3 units (JOHNSTON) [Not given in 1924–25]
autumn, 1

C151. Advanced Italian.—Dante, La Divina Commedia. Study and interpretation of the text; discussion of the literary problems of the poem.
3 units, autumn quarter (JOHNSTON) MWF 2:05
autumn, 3

C152. Advanced Italian (continued).
3 units, winter quarter (JOHNSTON) MWF 2:05
winter, 5

C153. Advanced Italian (continued).
3 units (JOHNSTON) [Not given in 1924–25]
winter, 1

C154. Minor Works of Dante.
winter, 1

C170. Petrarch and Boccaccio.—Lectures. Reading and interpretation of selections from their works. D'Ancona e Bacci, Manuale della letteratura Italiana, vol. I.
3 units (JOHNSTON) [Not given in 1924–25]

C171. Italian Classics of the 15th and 16th Centuries.—Reading and interpretation of representative selections.
2 units, spring quarter (SMITH) MW 3:05
spring, 4

D. PORTUGUESE

D1. Elementary Portuguese.—Drill on pronunciation. Elements of grammar. Reading of easy texts.
5 units (SMITH) [Not given in 1924–25]

D2. Elementary Portuguese (continued).—Grammar. Composition. Conversation. Reading. Prerequisite: D1, or equivalent.
5 units (SMITH) [Not given in 1924–25]

D3. Elementary Portuguese (continued).—Prerequisite: D2, or equivalent.
5 units (SMITH) [Not given in 1924–25]

E. GENERAL ROMANCE PHILOLOGY

PRIMARILY FOR GRADUATES

E201. Phonetics.—Lectures on General Phonetics and on the principles of linguistic change, with exercises based on the most familiar ancient and modern languages.
3 units, spring quarter (ANDERSON) TTh 2:05–3:30
spring, 7

E202. The Romantic Movement.—Lectures in English giving a comparative view of romanticism in French, Spanish and Spanish-American literatures; assigned readings in English, French, or Spanish to meet the needs of the student. Open to graduates and undergraduates.
3 units, spring quarter (COESTER) MWF 2:05
spring, 15

E210. Introduction to the Study of Old Provençal.—Reading of selected passages from Appel's Provenzalische Chrestomathie, with a study of Old Provençal Phonology and Morphology.
3 units, spring quarter (SMITH) MWF 2:05
spring, 3

E211. Romance Versification.—The fundamental principles of Romance verse structure, with particular attention to French and Spanish, lectures and practical exercises.
3 units, autumn quarter (ESPINOSA) MWF 1:05
autumn, 7

E220. Vulgar Latin and Introduction to Romance Philology.—The phonology and morphology of Vulgar Latin: a study of Vulgar Latin texts of the VI, VII, and VIII centuries, showing the development of Latin into Romance, especially Spanish, French, and Italian.
3 units, spring quarter (ESPINOSA) MWF 10
spring, 5

E221. Petronius. [See course B138 in the Department of Classical Literature.]

SLAVIC

HENRY LANZ, Instructor.

SLAVIC LITERATURE

(The following courses do not require a knowledge of any language other than English.)

C1. Slavic Literature.—It is the object of this course to give a brief account of the folklore and literature of Slavic nations such as Bohemia, Servia, Bulgaria, and Poland, in connection with their history and their religious development. Outside reading and reports.
2 units, autumn and spring quarters (LANZ) TTh 9
winter, 18; summer, 28

C2. History of Russian Literature.—The development of literature in Russia since the early Biliny period to the death of Gogol (1852). Special attention will be given throughout to the relations of Russian literature to social and political conditions, philosophy, and religion. Lectures and reading.
3 units, autumn and spring quarters (LANZ) MWF 11
autumn, 25; spring, 37

C3. History of Russian Literature (continuation of C2).—The modern Russian literature, covering the works of Turgenev, Goncharov, Dostoievsky, Tolstoy, and others. Mutual dependence between Russia and West-European literatures will be particularly emphasized.
3 units, winter and summer quarters MWF 11

C100. Leo Tolstoy.—His life and work.
2 units, autumn and spring quarters (Lanz) TTh 11
autumn, 34; spring, 26; summer, 29

C101. Theodore Dostoievsky.—His life and work.
2 units, winter and summer quarters TTh 11
winter, 10

Slavic Languages

A1. Elementary Russian.—It is the object of this course to put the students in possession of the elements of the Russian language. Beginning with a study of the alphabet, it covers the course in morphology, syntax, simple conversation, and reading of the easy Russian texts (short stories of Leo Tolstoy). Bondar, Simplified Russian Method.
4 units, autumn quarter (Lanz) MTThF 8
autumn, 4

A2. Elementary Russian (continued).—The study of the aspects of the verbs and advanced practice in conversation and reading.
4 units, winter quarter (Lanz) MTThF 8
winter, 5

A3. Elementary Russian (continued).—Thorough review of grammar; reading and conversation (Bondar).
4 units, spring quarter (Lanz) MTThF 8
spring, 5

A4. Commercial Russian.—The object of this course is merely practical; it is intended to put the students in possession of the commercial vocabulary and make them able to transact business in Russian language. Special attention will be given to the composition of business letters. Prerequisites: Russian A1, A2, A3.
4 units, summer quarter (Lanz) MTThF 8
summer, 1

A5. Individual Work.—Translation of documents in the Hoover collection.
(Lanz) By arrangement
autumn,2; summer, 4

A6. Seminar.
winter, 5; summer, 2

A21. Second-Year Russian.—Reading of Pushkin and Turgenev. Practice in conversation and composition on the basis of the material read. Forbes, Russian Grammar.
3 units, autumn quarter (Lanz) MWF 9
autumn, 2

A22. Second-Year Russian.—Chekhov, Stories.
3 units, winter quarter (Lanz) MWF 9
winter, 1

A23. Second-Year Russian.—Reading of modern prose and poetry.
3 units, spring quarter (Lanz) MWF 9
spring, 1

A131. Third-Year Russian.—Individual work.
3 units, autumn quarter (Lanz) By arrangement

A132. Third-Year Russian.—Individual work.
3 units, winter quarter (Lanz) By arrangement

A133. Third-Year Russian.—Individual work.
3 units, spring quarter (Lanz) By arrangement

SOCIAL SCIENCES

SCHOOL OF SOCIAL SCIENCES

EXECUTIVE COMMITTEE—Professors H. W. STUART, TERMAN, TREAT, WEST, and WILDMAN (chairman).

The School of Social Sciences has been formed (*a*) to facilitate the work of students who desire to study in several related fields without meeting the requirements for a degree in any one department; (*b*) to afford a convenient organization for the conduct of courses in subjects which do not lie wholly within the scope of any particular department; (*c*) to make possible a closer correlation of the work of the several departments included in the school.

The faculty includes all members of the departments of Economics, History, Philosophy, and Political Science, and the instructors in Citizenship, and Journalism, together with certain professors chosen from the departments of Education, Food Research, Psychology, Law, Language, and Literature, who offer courses of instruction in subjects related to the Social Sciences.

UNDERGRADUATES

MAJOR STUDENTS.—In order to become a major student in the School of Social Sciences one must have obtained 90 units of university credit with a grade-point average of 1.5.

For the degree of Bachelor of Arts in this school 80 units are required in courses offered by the departments of Economics, History, Philosophy, and Political Science, together with the related courses offered in the other departments mentioned above. A part of this requirement will, under existing regulations, be met while the student is in the Lower Division.

The following courses of study (described in the announcements of the several departments in which they are offered) are specifically required for graduation in the school:

Economics 1 (Elements)	4 units
Economics 2 (Sociology)	6 units
History 10, 11, and 12 (European) or History 16 and 17 (English)	9 units
Philosophy 2 (Ethics)	4 units
Political Science 1 (Introduction)	5 units
Psychology 51 (General Psychology)	5 units
Statistical Methods	4 units
Total	37 units

(The requirement in statistical methods may be satisfied by Economics 6 (4 units), Education 190 (4 units), or Psychology 60 (5 units). The modern language requirements of the Lower Division must be satisfied as early as possible by all major students in the school who enter from other institutions.)

Graduate Students

Graduate students who have completed the undergraduate requirements of the School of Social Sciences or of any one of the four constituent departments, or an approximate equivalent of these, may be enrolled in the School as major students and may become candidates for the degree of Master of Arts or Doctor of Philosophy. Graduates of a constituent department or of another institution must, however, have completed the specific undergraduate requirements of the School before an application for candidacy for an advanced degree can be approved. Candidates for these degrees shall comply with all the general requirements of the University specified for the degree sought.

The primary function of the School is to assist students in the investigation of problems which may not admit of satisfactory treatment from the point of view of any one of the several social sciences. Accordingly, only such graduate students as are looking forward to the preparation of a thesis or dissertation upon a problem of the kind in question will be enrolled as major students in the School or approved as candidates for advanced degrees. Enrollment will be made with the Chairman of the Executive Committee. Continuance of a graduate student in the School will depend upon the approval of a special standing committee consisting in each case of the Advisor of Graduate Students and a representative designated by each department of the School, constituent or allied, whose province, in the judgment of the chairman of the Executive Committee, the proposed problem more directly touches. This special committee shall have a general oversight of the student's entire work. It shall pass upon the competence of the candidate's knowledge of French and German and upon the programme of studies to be submitted to the Committee on Graduate Study in connection with the application for candidacy for the advanced degree. Application for candidacy must have the final approval of the chairman of the Executive Committee of the School. The completed programme of studies will constitute a "major in Social Sciences" for the degree of Doctor of Philosophy. In view of the composite character of this major, the School will regularly recommend to the Committee on Graduate Study in behalf of its candidates for the doctorate that the normal requirement of a specified minor subject, or subjects, be waived. Such candidates, before their primary oral examination for the degree, must pass written examinations of a comprehensive character in the subjects included in the specific undergraduate requirements.

ZOOLOGY

Charles Henry Gilbert, Harold Heath, George Clinton Price, Professors.

Walter Kendrick Fisher, John Otterbein Snyder, Associate Professors.

Edwin Chapin Starks, Assistant Professor.

[General Biology.—See under Biology, p. 13.]

(Courses 1 and 2 may be undertaken without previous preparation in Zoology.)

1. General Zoology.—A laboratory course involving the study of representatives of the principal groups of animals, accompanied by lectures on

their structure and classification, and on the general laws of biology which they illustrate.

5 units, autumn quarter (PRICE); winter quarter (STARKS); summer quarter at Hopkins Marine Station (HEATH)
autumn, 64; winter, 30

2. The Vertebrates.—A general course in the classification of vertebrate animals, with studies in their habits and the geographical distribution of species. The course is largely devoted to birds. It includes field excursions, and observations of live animals in the laboratory.

5 units, spring quarter (SNYDER) MTWThF 1:15–3:45
spring, 16

100. The Classification and Ecology of Marine Invertebrates.—The object of this course is to give the student the widest possible acquaintance with the animals which live along shore and in the plankton of Monterey Bay—their classification, associations, distribution, and habits.

5 units, summer quarter (Hopkins Marine Station, Pacific Grove) (FISHER) Lab. MTWThF

101a. The Invertebrates.—This course following course 1, is designed to give the student a broader knowledge of the morphology and relationships of the more important invertebrate groups.

5 units, autumn quarter (HEATH) MTWThF
autumn, 12

101b. The Invertebrates.—A course similar to 101*a* in requirements, but not in subject matter. May or may not be preceded by 101*a*.

3 units, spring quarter (HEATH) Forenoons, by arrangement

200. Advanced Work on Invertebrates.—The original investigation of problems connected with anatomy and embryology of invertebrates.

3 to 5 units, autumn, winter, and spring quarters (HEATH) By arrangement
autumn, 2

201. Research Work on Invertebrates.—Prosecution of special studies with reference to the classification, anatomy, and life history of invertebrates.

autumn, winter, spring, and summer quarters (at Hopkins Marine Station, Pacific Grove) (FISHER) By arrangement

103. Advanced Vertebrates.—Advanced studies in systematic vertebrate zoology, including practice in museum methods, in field observations, and in the collection and preparation of specimens with data. To be preceded by course 2.

3 to 5 units, autumn quarter (SNYDER) MTWThF
autumn, 6

104. Comparative Anatomy of the Vertebrates.—A detailed examination of vertebrate morphology, including dissection of representatives of the several classes of vertebrates, with comparative studies in vertebrate osteology, the nervous and circulatory systems. To be preceded by course 1.

5 units, winter quarter (SNYDER); spring quarter (STARKS) MTWThF 1:15–4:15
winter, 26; spring, 14

105. Mammalian Anatomy.—For students who have had course 104.

3 to 5 units, autumn quarter (STARKS) Forenoon hours by arrangement
autumn, 6; spring, 2

106. Vertebrate Embryology.—The development of the chick through the first three days of incubation, and the later stages in the development of the mammal. To be preceded by course 1.

5 units, winter and spring quarters (PRICE) MTWThF
winter, 26; spring, 45

107. Primitive Chordates.—Amphioxus, the tunicates, and the lampreys. Open to students who have had courses 104 or 106.

5 units, autumn quarter (STARKS) Forenoon hours by arrangement
autumn, 2

108. Fishes.—An examination of the larger groups of fishes and practical work in the discrimination of species.

5 units, autumn quarter (STARKS) Forenoon hours by arrangement
autumn, 5

202. Advanced Ichthyology.—Special problems in the morphology and classification of fishes will be set for advanced students prepared for such work.

2 to 5 units, autumn, winter, and spring quarters (STARKS, GILBERT) By arrangement
spring, 10

109. Journal Club.—Open to seniors and graduate students.

4 units, winter quarter (GILBERT) By arrangement

Major students, before graduation, must complete courses 1, 101, 104, 106, 109; Animal Classification 2, 108, 201, or Entomology 3, or some equivalent; Elementary Botany 1, 2, or 3; Elementary Entomology 1*a*. One quarter at the Hopkins Marine Station is strongly recommended. Substitution of other courses is permitted in special cases. Course 1, General Zoology, with at least one other five-unit course in Zoology, is to be completed by major students in this department before their junior year.

Work for graduate and special students will be laid out in accordance with their individual needs and preferences.

Students who look forward to the study of medicine may take Zoology for their major subject and receive the A.B. degree at the close of a four years' course which shall also contain the first year in medicine. The following courses in Zoology will be required of such students: Zoology 1, 5 units; Invertebrate Morphology, 5 units; Comparative Anatomy of the Vertebrates, 5 units; Vertebrate Embryology, 5 units.

THE TEACHER'S RECOMMENDATION.—The department recommendation for the High School Teacher's Certificate in Zoology requires the completion of the following courses: Zoology as a major; Zoology 1 (General), 5 units; 101 (Invertebrates), 5 units; 2 (Vertebrates), 5 units; 104 (Comparative Anatomy of Vertebrates), 5 units; 106 (Vertebrate Embryology), 5 units; Entomology 1*a* (Elementary Entomology), 5 units; Physiology 101 or 102 (Elementary Physiology), 5 units. Total, 35 units. Zoology as a minor: Zoology 1, 2, 101, 104; Entomology 1*a*. Total, 25 units.

[Courses taken at the Hopkins Marine Station may be substituted for certain of those listed above.]

THE ZOOLOGICAL COLLECTIONS

The ZOOLOGICAL MUSEUM contains a very full representation of the fishes of North America, and includes among others a valuable series of the deep-water fishes of the Pacific, and large collections from the West Indies, the Hawaiian Islands, Bering Sea, Japan, the coasts of Mexico and Central America, and the Galápagos Islands. The museum contains also a large representation of the reptiles, batrachians, birds, and mammals of California and adjoining states. The collection of marine inverte-

brates is rich in Pacific echinoderms and crustacea, and contains a good working nucleus in the other principal groups. The series of deep-sea forms is especially valuable.

Laboratory Fees.—$1 each quarter per unit of course.

ENTOMOLOGY

Rennie Wilbur Doane, Mary Isabel McCracken, Associate Professors.
Gordon Floyd Ferris, Assistant Professor.

Courses 1 to 5 are intended for beginning students in entomology and for the general student who wants to gain some knowledge of the structure, development, classification, adaptation, and economic importance of insects. These courses are open to lower division students. Many of the other courses, while intended primarily for students majoring in entomology, may profitably be taken by students majoring in other departments.

Students majoring in entomology may, if they desire, lay particular emphasis upon the systematic, the biologic, or the economic side of the work, fitting themselves for teachers, investigators, or for museum work. At present the demand for economic entomologists is much greater than the supply, and a well trained man usually quickly finds a place in government, state, or county work, or with some of the firms engaged in the manufacture and sale of insecticides.

The constantly growing entomological collections contain authoritatively named specimens, accessible for comparison, in all of the orders of insects. The Hymenoptera, Lepidoptera, Diptera, Coccidae, Mallophaga, and Anoplura being especially well represented. In addition to the systematic collections there are large series illustrating the development, habits and adaptations of insects, particularly those of economic importance.

Complete sets of all of the important entomological journals, as well as many text and reference books and reprints of papers on various subjects relating to entomology, are to be found in the libraries.

The laboratories are well supplied with microscopes, photographic apparatus, and other equipment needed for entomological research, special provision being made for the work of graduate students.

A small experimental orchard and an apiary and a lathhouse also add to the opportunities to do practical outside work.

Students majoring in entomology must obtain forty-five units of credit in entomology or its equivalent, and certain courses in zoology, botany, or physiology.

Laboratory Fees.—$3.50 for course 102, $2.50 per quarter for other laboratory courses.

1a. Elementary Entomology.—An introduction to the study of entomology intended to give the student a general knowledge of the structure, development, and classification of the more important orders of insects. Laboratory work, with occasional lectures. Open to all students.
5 units, autumn and *spring quarters (Ferris) forenoons
autumn, 56; winter, 1; spring, 65

1b. Elementary Entomology.—The minor orders and the internal anatomy of insects are dealt with in this course. To be preceded by course 1*a*, of which it is a continuation. Intended chiefly for entomology majors.

5 units, winter quarter (FERRIS) forenoons
autumn, 6; winter, 18

2. Morphology.—This course includes a study of insect structures from the point of view of adaptation (function) and taxonomy. The aim of the course is to lay a firm foundation for entomological studies. Laboratory work and occasional lectures.

Section *a*—Primarily for majors in zoology and entomology or students in general biology.

Section *b*—Primarily for pre-medical and bacteriological students who wish to acquire through the laboratory method a more intimate knowledge of insects of pathological importance. This course may be taken concurrently with course 5.

3 to 5 units, autumn and winter quarters (MCCRACKEN) forenoons
autumn, 8; winter, 3; summer, 17

3. Classification of Insects.—The purpose of this course is to increase the student's knowledge of the insect fauna and acquaint him with the aims and methods of systematic work. Should be preceded by courses 1*a* or 2.

5 units, autumn, winter, and spring quarters (MCCRACKEN) forenoons
autumn, 1; winter, 1; spring, 19

4. General Entomology and Insect Adaptations.—A course of lectures and demonstrations. Open to all students.

2 units, autumn quarter (DOANE) Lec. TTh 9
autumn, 65

5. Insects and Disease.—A discussion of the insects that cause or disseminate some of the diseases in man and the domestic animals. Lectures and demonstrations. Open to students having some previous training in biology.

2 units, winter quarter (DOANE) TTh 9
winter, 107

100. Honey-bee and Apiculture.—Study of the honey-bee; its structure and activities and an introduction to practical bee-keeping through work in a small apiary. Students should consult instructor before registering in this course.

3 units, spring and *summer quarters (MCCRACKEN) TTh 9; TTh afternoons
spring, 18

101. Economic Entomology: Coccidae (the Scale Insects).—A study of the classification, general biology, and economic relations of the scale insects, with particular attention to the more important injurious ones of the Pacific Coast. Field, laboratory, and bibliographic work, with occasional lectures.

3 units, winter quarter (DOANE, FERRIS) MWF afternoons
autumn, 2; winter, 3

102. Technique.—A course primarily in elementary histological technique and including a limited study of the fundamental tissues, intended especially for Entomology and Zoology majors.

2 to 5 units, winter and *spring quarters (FERRIS) By arrangement
winter, 9

103. Economic Entomology: Forest Insects.—A study of the insect enemies of forest and shade trees. The course includes field, laboratory, and bibliographic work.
3 units, autumn quarter (DOANE) MWF afternoons
autumn, 3

104. Economic Entomology: Orchard and Garden Insects.—A study of the principal injurious and beneficial insects of the orchard and garden. Includes field, laboratory, and bibliographic work, and occasional lectures. Should be preceded by course 101.
3 units, spring quarter (DOANE) MWF afternoons
spring, 2

105. Economic Entomology: Principles and Practice.—A course of lectures relating to the development of economic entomology and the methods of controlling some of the more important insect pests.
2 units, spring quarter (DOANE) TTh 9

106. Principles of Nomenclature.—A series of lectures dealing with the principles of biological nomenclature and intended to meet the needs of students from any of the biological departments.
1 unit, spring quarter (FERRIS) W 4
spring, 2

107. Advanced Entomology.—Open only to upperclassmen who are prepared to do advanced economic, systematic, or biologic work. Laboratory and field work.
autumn, winter, spring, and summer quarters (DOANE, MCCRACKEN, FERRIS) By arrangement
autumn, 5; winter. 13 (3 groups); spring, 15 (3 groups); summer, 5

108. Animal Genetics.—Discussion and demonstrations of the principles of heredity underlying modern practices in improvement of animals.
2 units, winter quarter (MCCRACKEN) Lec. TTh 11
winter, 10

109. Seminar in Genetics.—Open to senior and graduate students.
2 units, autumn, winter, and spring quarters (MCCRACKEN) By arrangement
autumn, 1; winter, 5; spring, 4

110. Physiology of Arthropods.—Special problems involving laboratory work using insects or other Arthropods as material. Prerequisite: one of courses Physiology 9, 109, or 103, or equivalent.
2 to 5 units, autumn, winter, or spring quarters (BAUMBERGER, SHAFER, WEYMOUTH) By arrangement

111. Seminar in Entomology.—Open to senior and graduate students.
2 units, autumn, winter, or spring quarters (DOANE, MCCRACKEN, FERRIS) By arrangement
autumn, 3; winter, 4

116. Bionomics.
2 units, autumn quarter (DOANE)
autumn, 58

201. Research.—Primarily for graduate students who are prepared to do research work in systematic biologic or economic entomology.
autumn, winter, spring, and summer quarters (DOANE, MCCRACKEN, FERRIS) By arrangement
autumn, 2; winter, 1; spring, 1; summer, 1

MUSEUM AND ART GALLERY

LELAND STANFORD JUNIOR MUSEUM

Pedro J. Lemos, Director.

In 1880, Leland Stanford Junior, then eleven years of age, accompanied his parents on a trip through Europe, collecting numerous mementos of the places visited. In 1883, on a second visit, he began to pursue this object more ambitiously, and finally with the idea of establishing a museum. The Leland Stanford Junior Museum was designed by Mrs. Stanford as a memorial to perpetuate this idea, and the various collections are largely her gift to the Museum.

The collection made by Leland Stanford, Jr., between 1880 and 1884 has been placed in two rooms, and in one room his own arrangement is reproduced in detail; in the other room are found mementos of his early life. These two rooms contain especially Egyptian bronzes, Tanagra figurines, Greek and Roman glass, armor, mosaics, Sèvres and Dresden ware, and the like.

The Stanford Memorial Room contains collections of personal belongings pertaining to the founders of the University. Added to these are collections connected with the early days of the University, views of buildings in construction, and details of the mosaics used in the Memorial Church.

Another room contains the famous historical relic, *The Governor Stanford,* the first locomotive used on the Central Pacific Railroad, in 1864. A group of cases in this room contain collections related to early California history. The center case contains practically all the implements extant of the old Mission Dolores, presented by Don Pablo Vasquez, whose father was the last major-domo of the Mission. Included in the Mission collection are some extremely rare relics of Father Junipero Serra and of the Carmel and Santa Barbara Missions.

The Di Cesnola Collection contains Greek and Roman pottery and glass from the Island of Cypress.

The American Indian Collection is made up of mound relics, Indian baskets, Indian Pueblo pottery, utensils, Alaskan canoes, totem poles, etc. In this room is also a display of material of the stone age purchased by Mrs. Stanford in Denmark.

The Ikeda Chinese and Japanese collection, purchased by Mrs. Stanford in 1904, comprises rare art material from the Orient.

In the Chinese and Japanese room there is exhibited a collection of bronzes, arms, china, lacquer, cabinets, musical instruments, rich embroideries, and specimens of wood-carving; also the famous de Long Collection of Japanese rarities.

The Japanese Collection, purchased by Mrs. Stanford in 1902, consists of cloisonné, Satsuma, porcelain, embroideries, Buddhistic images and ivory carvings, and includes a large bronze Koro, over 150 years old. The Corean collection, the gift of Mr. Timothy Hopkins, contains costumes, household goods, cabinets, screens, etc. Ceramics collected by Mrs. Stanford include Sèvres, Dresden, Royal Berlin, Persian, Pompadour crystal, Bohemian, and numerous other wares.

The Egyptian Room contains: Egyptian stone carvings, alabaster canopias or jars, bronze, wooden, terra-cotta, and glazed statuettes, images, mummies, scarabs, and numberless other emblems, hand-woven linen and Coptic textile color designs, and original portrait paintings taken from mummy cases. This Egyptian material was collected for Mrs. Stanford by the Curator of the Cairo Museum, Emile Brusch Bey, and experted by Dr. Sayce, the noted Egyptologist. This room also contains a case displaying a collection of very old and rare Babylonian tablets.

The upper floor of the Museum contains two large collections of paintings. One of these was collected by Mr. and Mrs. Stanford and includes original paintings of each member of the family, by such artists as Messionier and Bonnat, also original paintings by Benjamin West, Gustave Richter, William Keith, and Thomas Hill. The other collection is loaned by Mr. and Mrs. Timothy Hopkins, and includes paintings by Sir Joshua Reynolds, Josef Israels, and J. J. Henner.

THOMAS WELTON STANFORD ART GALLERY

Pedro J. Lemos, Director.

The Thomas Welton Stanford Art Gallery is composed of four galleries designed for the exhibition of paintings and other works of art.

In the main galleries the collection of paintings donated by Thomas Welton Stanford is placed. Among these are pictures by Minderhout Hobbema, James Giles, R. S. A.; John Frederick Herring, Lienur, Van der Houten, Francis Snyders, W. J. Laidley, David Bates, John Yarley, Juliun M. Price, J. W. Ready, William Melby, James E. Meadows, Elijah Walton, F.G.S.; W. Henry, W. Koek-Koek, E. Wake Cook, T. R. Miles, Sr., John Glover, Herr Schnars-Alquist, Louis Buvelot, William Hart, William Shiels, R.S.A.; S. Bird, Patrick Nasmyth, Emil

Bayard, Gerard Lairesse, C. Wimmer, Salvator Rosa, G. Koken, John Weenix, Bachman, Kobell, Jr., Charles Stuart, Heinrich Rasch, Melchoir Hondecooter, Marie Angelica Kaufman, Ten Kate, George Earl, Guardabassi, E. G. Lewis, and E. C. Curtiss.

The rear gallery has been planned for the exhibition of collections of paintings, etchings, and sculpture from eastern and foreign art centers. These exhibitions are announced from time to time as they are received.

LECTURES AND DEBATES

RAYMOND FRED WEST MEMORIAL LECTURES

In 1910 Mr. and Mrs. Fred West, of Seattle, Washington, presented to the University, in memory of their son, Raymond Fred West, a student of the University who died before the completion of his college course, the sum of ten thousand dollars, to be held as a fund in perpetual trust, for the establishment of a lectureship on a plan similar to the Dudleian Lectures at Harvard University.

"It is our wish that such lectures shall not form part of the usual college or university course, nor shall they be delivered by any professor or instructor in active service in the institution. Such lecturer may be a clergyman or a layman, a member of any ecclesiastical organization, or of none, but he should be a man of the highest personal character and of superior intellectual endowment. He shall be chosen by the Faculty and the Board of Trustees of said University in such manner as the said Board of Trustees may determine, but the appointment in any case shall be made at least six months before the delivery of said lectures. . . . The course of lectures shall be known as the 'Raymond Fred West Memorial Lectures on Immortality, Human Conduct, and Human Destiny.'"

The following general plan has been adopted by the University: The lectures are to be delivered in alternate years; the lecturer is to give at least three lectures; the lectures are to be published in book form within two years after delivery, the lecturer to have the option of publishing them himself, in which case the University will purchase a hundred copies, or of having the University publish them, in which case it will retain the copyright (in any case the manuscript of the lecturer is to be filed in the University archives); the honorarium to be decided in each case by the Board of Trustees, and unless otherwise ordered the entire earnings of the fund for the two years to be devoted to honorariums and to the purpose of publication; the lecturer is to be nominated by the President with the approval of the Advisory Board and the consent and ratification of the Board of Trustees.

These lectures have been given by Charles Edward Jefferson, Samuel McChord Crothers, Hastings Rashdall, Charles Lewis Slattery, John Dewey, Henry Osborn Taylor, Irving Babbitt, and Arthur Twining Hadley. The general subject of the last series, given April 22, 23, 24, 1924, was "The Conflict Between Liberty and Equality." The titles of the

lectures were "Industrial Problems and Political Ideals," "The Uses and Dangers of Property Right," and "The Uses and Dangers of Representative Government."

DEBATES

Intercollegiate debates, under the auspices of the Associated Students of the University, are held each year with the University of California, the University of Southern California, and other Pacific Coast institutions. A local public speaking contest, in which speaking in the extemporaneous style is encouraged, usually occurs during the Autumn Quarter. The Associated Students of the University send a representative to take part in the Annual Pacific Coast Oratorical and Extemporaneous Contests held under the auspices of the Pacific Coast Public Speaking League. Stanford Freshmen meet California University Freshmen in dual debate in the Winter or Spring Quarter.

Debate societies within the University are two in number, Euphronia, composed of men, and The Women's Debating Society. These societies carry on debates among themselves and with similar societies in other institutions in the Bay region. Interest is being aroused in women's debate as an activity, and it is probable that women's debates with California and Mills College will be arranged in the near future.

In March, 1923, Stanford University became a member of the newly formed Pacific Forensic League, the purpose of which is to foster forensic endeavor among the several member institutions. The members of the Conference are: Washington State College, Whitman College, Reed College, the University of Oregon, Oregon Agricultural College, Stanford University, University of Southern California, and Willamette University.

California Triangular Debate

On the evening of November 3, 1924, Stanford, the University of California, and the University of Southern California engaged in a three-cornered debate on the question: "Coolidge vs. Davis vs. La Follette for President." Each university had a representative in each debate. The Stanford home debate was staged in Native Sons' Auditorium, San Francisco, with Dr. David Starr Jordan presiding. President Coolidge's candidacy was upheld by Robert M. C. Littler of Stanford; that of Mr. Davis, by Mr. Bernard Brennan of the University of Southern California, and that of Mr. La Follette by Mr. Bernard Witkin of the University of California. A vote of the audience was taken before and after the discussion. The results showed Mr. Coolidge in

the lead both as to total numbers cast, and also as to accretions in strength as a result of the debate. Stanford was represented in the Los Angeles debate by Robert E. Lewis, supporting La Follette; and at Berkeley, by Stanley A. Weigel, supporting Davis.

The Pacific Coast Extemporaneous Contest

December 3d, in the Assembly Hall, Stanley A. Weigel, representing Stanford University, won first honors, and the prize of fifty dollars awarded by the League, in the second annual extemporaneous speaking contest of the Pacific Forensic League. The general subject was "The Power of Federal Courts to Declare Void Acts of Congress." Mr. Weigel's specific topic, assigned one hour prior to the contest, was "The Supreme Court's interpretation of the due process clauses and the domination of state legislatures by federal courts."

The Stanford-Oxford Debate

For the first time in the history of Stanford an Oxford debating team made its appearance in the Assembly Hall in a debate with representatives from Stanford University. The question discussed was: "Resolved that this House is opposed to the principle of prohibition." J. D. Woodruff, M. Christopher Hollis, and Malcolm MacDonald, upheld the motion for Oxford; Stanley A. Weigel, Robert E. Lewis, and Robert M. C. Littler, opposed the motion for Stanford. The Assembly Hall was filled to capacity and many were turned away at the doors. At the conclusion of the debate a vote was taken on the merits of the question, 730 persons opposing the motion, and 229 supporting it. Later, Mr. Littler and Mr. Lewis joined with Mr. Raymond Stanbury of the University of California, in opposing the motion against the Oxonians in a debate held in the Civic Auditorium in San Francisco. The vote in this debate showed a preponderance in favor of the visitors' contentions. Dr. Ray Lyman Wilbur presided at the Stanford debate.

The Japanese Immigration Debates

Eight Stanford debaters met debaters from other institutions on both sides of the question: Resolved, that the Immigration Law of 1924 should be so amended as to admit Japanese on the same basis as Europeans. The most novel of these debates was that conducted by radio with the University of Oregon on March 25th. In this debate Stanford was represented by W. Leslie Gosslin and Alfred Frazier, arguing the negative. Hugh M. Lindsey and George N. Crocker composed an affirmative team which debated during the spring vacation in the south-

ern part of the state, meeting the California Institute of Technology at Pasadena on March 24th, Pomona College the following night, and the Southern Branch of the University of California on March 27. Stanford won an audience decision and lost an audience decision and a board of judges' decision on this trip. Charles Craven Scott and Raymond Bruce, defending the negative, lost the judges' decision, but won the audience vote in a debate with a team from Utah Agricultural College. On April 7th, Theodore Baer and Darrell Parker, debating on the affirmative, engaged in a no-decision debate with a team from the Kansas State Agricultural College. The open forum discussion following this debate was especially noteworthy for its excellence.

The Joffre Medaille Debate

A representative of Stanford University won the Joffre medal for the fourth consecutive year when, on the evening of April 15th, John C. Duniway was given the audience decision in a close and spirited debate in Assembly Hall. Raymond Stanbury of California, was winner of second place. The general question was: "French Policy in Africa and Asia." The specific question chosen by Professor Carleton Hayes of Columbia University, and released to the debaters two hours before the contest, was: "Resolved, that the large scale military training and use of colored colonials in the French army is advantageous to civilization." Both Mr. Duniway and Mr Stanbury upheld the affirmative. The other Stanford speakers were Victor Hunt Harding and Robert E. Lewis.

Women's Debate With California

On the evening of April 7th, Miss Eleanor Davidson and Miss Anna Harris debated women of the University of California in Wheeler Auditorium, Berkeley, on the question: "Resolved, that the school of thought represented by Mr. H. L. Mencken is a harmful influence in American life." Stanford upheld the negative. A vote of the judges gave a decision of 2 to 1 in favor of California. The vote of the audience, however, was 270 to 206 in favor of the Stanford team. Experienced observers declare the debate to have been one of the most brilliant ever conducted between the two universities.

Freshmen Debates

On March 4th Stanford Freshmen unanimously defeated the California Freshmen on both sides of the question, "Resolved, that the Ku Klux Klan should be suppressed through Federal legislation." The Stanford speakers were: Philip Cavalero, Floyd Holdren, William H. Levit, William P. Mangold, Jack W. Shoup, and Garth D. Winslow.

DEGREES CONFERRED

([1]October 9, 1924; [2]January 9, 1925; [3]April 3, 1925; June 22, 1925)

BACHELOR OF ARTS

BACTERIOLOGY AND EXPERIMENTAL PATHOLOGY

Luther Glynne Price

Eva Doris Schwartz
With distinction

SCHOOL OF BIOLOGY

[3]Perry Arthur Bonar
[1]Helen Masters Bunting
[1]Chester Lynn Cooley
[1]Wayne A. Durston
Frances Foster
Charles Harold McCallister
Arthur Ashley Marlow
Joseph Jerome O'Hara
Paul Wright Orr
[1]Ernest Harrison Quayle
Robert Paul Quirmbach
[1]Constance Almeda Tamplin

BOTANY

[1]Lyman Harry Daugherty
With distinction

Donald Alexander Johansen
With distinction

[3]Janet Quentin Plowe
With great distinction

CHEMISTRY

[1]Morris Berman
[3]Eldred Floyd Bollinger
Frederic Wallace Borden
With distinction
[1]Hans v. Briesen
David Ewald Brown, Jr.
Ernest Stanley Brown
Donald Eastman Clark
With distinction
[3]Gerald Henry van de Griendt
[3]Gale Charles Griswold
With great distinction
Carlos Eugenio Pérez Guerra
Charles Edward Hablutzel
[3]Donald K. Harger
With distinction
[2]Charles Henry Harrington
[3]Max Foster Hopper
With distinction
[3]Evelyn Howard
[3]Jonathan Hoyt
Hugh Martin Huffman
[1]William Avery Hyde
With great distinction
Richard Leos Jenkins
Lewis Montford McCormick
[3]Roscoe Riehm Miller
Roberta Hasty Mitchell
With distinction
Christian William Niemann
Burton Avery Noble
[2]Francis Ignatius O'Neill
Jennie Marie Petersen
Benjamin Simon
[1]Whittier Caldwell Watterson
[2]Hung Chu Wong
James Chalmers Wright
[3]Chin-Chuan Wu

CLASSICAL LITERATURE

Ernest Sota Fujinaga

ECONOMICS

[3]Joseph Heron Acheson
Lloyd Jeffreys Allen
Norman William Ambrose
Ralph Eugene Anderson
[3]Clement Finley Atwater
[2]Norman John deBack
[2]George Harold Baker
[1]Arnold Blakeman Bayley
Frederick Fancher Bell
Luther Shepard Bell
[1]Samuel Stewart Beltz
[1]Othmar Berarde Berry
Herbert Spencer Bigelow
With distinction
[2]Virginia Keith Biggar
F. Claire Blosser
Walter Claus Borchers
[3]Ernest King Bramblett
[1]John Frank Campbell
[1]George Edward Carey
Keath Langhenry Carver
With great distinction
Howard Stephen Chase
[2]George Roger Chute
[2]Loraine Cleaveland
[1]Albert Clarence Clough
[1]Richard Coblentz
Richard Davis Coen
Arthur Brooks Conover
With distinction
[3]Albert Hartley Crawford
[3]Alva Bernard Crobaugh
William Oothout Davidson
With distinction
George Arthur Davies, Jr.
Rupert Truman Dawes
[1]Edward Emile Dorresten
[2]John Austin Driscoll
Lloyd Kriesel DuBois
James Bernard DuPrau
[2]Elmer Ellsworth Elliott
Myron Kenneth Elms
Kenmore Leon Emerson
Joseph Emmons Erwin
Kenyon Tudor Fay
[3]Frank Miller Findley
Philip Shearer Fogg
With distinction
[2]Marjorie Mae Frink
Roy Richardson Fuller
Harold Avedis Gertmenian
Thomas Joseph Grace
John Dunbar Graves
Robert Leroy Greene
Margaret Eleanor Grill
[2]George Green Griswold
[3]Chester Oliver Gunther
Cecil Irving Haley
Wilbert John Hammond
Elvan Amos Hansell
Kenneth Charleton Hardwicke
Harold Ringer Harvey
[2]Edward Athelstane Howard
Robert Osborn Hoxie
[2]Mary Ellen Hull
[5]Yoshio Ichikawa
With great distinction
David Henry James
Milton James Johnson
With distinction
Ralph Joseph Jones
Edgar Myron Kahn
Harry Fowler Kennedy
[1]Robert Bankert Kennedy

Aram Haig Khazoyan
[1]Fred Michio Koba
Melville Arthur Rud Krogness
Egbert Warren Laub
Polly Dee Learnard
With distinction
William Archibald Logan
[3]Francis Butler Loomis, Jr.
[2]Joseph Ellsworth Loveless
William Wickliffe McCandless III
[1]Mary Rita McCarty
[2]Kathryn Eloise McCleave
[1]James Morgan McGrath
Tarance Smith Magee
George Albert Marks
[3]Cecil Marquis
Henry Adam Martin
William Max Mather
J. Earle May
[2]Russell Staples Merritt
Willis Alan Mitchell, Jr.
Edward Pierre Muller
[3]Robert Sinclair Murray
Arnold Harvey Nelson
[1]Adolph Neuman
Jerome Paul Newbauer
[2]Nelson Taplin Nowell
[2]Daniel Minter Olsen
Charles Harold Overfelt
Charles Helmer Parks
David Harold Peery
[1]Raymon A. Pike
John Edward Plimpton
[3]John Hammerson Poole
[3]Henry Clayton Reinhart
[2]Roland Wilson Reticker
[1]Carl Burton Robbins
With distinction
Melvin Stephen Sanguinetti
With great distinction
Kenneth Dudley Sanson
With distinction
James Lawrence Shelly
Francis LeRoy Sims, Jr.
Albert Edward Smith
[3]Alice London Smith
With distinction
[2]Earle Frederick Smith
Lucius Dent Smith
Holmes Richter Stewart
[3]James Douglas Stewart
Wu Taam
[3]Robert Chadwick Titus
[1]Eugene N. Trago
Glendon Louis Tremaine
Baldo Joseph Tutman
Norton Edward Wattenberger
[2]Marguerite Weichselfelder
Edward Ebenezer Wells, Jr.
[1]Charles Benjamin White
[1]Harry Dexter White
With great distinction
Robert Jenkins White
Max Montgomery Whitmore
[3]Perry Davisson Widaman
Henry James Willis
Henry Paul Willis
John Metts Willits
Horace Rose Wisely
[2]Howard E. Wittenberg
With distinction
[3]Seizi Yamasaki

ECONOMICS: JOURNALISM

Mary Baker

EDUCATION

[1]John Aseltine
With great distinction

[3]Rotha Gray Doebler
Glenn William Goddard

[1]Frederick Robie Palmer

EDUCATION: Graphic Art

[3]Hazel Hatch
Evelyn Hope Huntington
[3]Mabel Ferris McKibbin
With distinction

[3]Mercedes Pearce
Candace Porteous
Elizabeth Hervey Roper
With distinction

Genevieve Rosebrook

ENGINEERING

CIVIL ENGINEERING

Hiram Bassler
[1]Allen Gemmil Benson
[3]Carroll Lynne Blacker
[1]John Donald Campbell
Irving Elisha Chapman
[3]Marion Lowell Crist
Norman Dorset Dole
George Samuel Harman
Theodore Raymond Haseltine
With distinction
Hugo Garvin Hornlein

[3]Fred Raymond Ingram
Lewis Lagodzinski
Deming William Morrison
[2]Elmer John Nelson
Frank Mark Penepacker
[1]Colby Dutot Tarleton
Allen Cromwell White
Harold LeRoy White
[3]Harry A. Williams
[3]Wendell Rogers Wilson

ELECTRICAL ENGINEERING

[2]Daniel Kenneth Coyle

Thomas Hume West

MECHANICAL ENGINEERING

Charles Christopher Baptie
John Greenough Becker
Cecil Raney Benson
[3]Henry H. Berk
Arthur Dickinson Bragg
Charles Vance Carter
Myron Durfee Case
With distinction

[2]Norman Cleaveland
[3]Frank Sittig Cobe
George Wilbur Colby
[3]Timothy Edward Colvin
Robert Chambers Cook
Frederick Emanuel Crever
With great distinction
[3]Clarence Harold Dawson

[2]William Bryan Duncan
[2]Herbert McGilvray Dwight
With distinction
Harlow De Wolfe English, Jr.
[3]Raymond Oliver Flood
Evert Henry Ford
Samuel Wilcox French
Frederick William Frink
[2]Dick Phelps Fullerton, Jr.
With distinction
Charles Vernon Givan
With distinction
[1]Carroll Brent Griffin
Kenneth Howard Hamilton
Elmer Halbert Hammond
With distinction
[3]Frank Bellchambers Hays
[3]Alfred Gerhard Heidig.
Theodore Carroll Hotchkiss
Vaughn LeRoy Johannessen
Ernest Charles King
[3]Eric Eugene Kraemer
[5]Grove Lawrence
William George Lee
Richard Campbell Lewis
Marcel Alfred Lissman
With great distinction
Richard Rookledge Macintosh
[3]Ernest Nathaniel Merrill
Morris John Mode
Tomio Murata
Otto Harold Otterson
[3]Harold Raymond Park
William Rogers Postlewaite
[2]Joseph Pressly Price
Ewald Pyzel
[2]Lewis Reese, Jr.
Harold Louis Rorden
With distinction
Harold William Schmid
[3]Fremont Roosevelt Schmieder
[3]Donald Kenneth Stewart
[3]William Lyman Thayer
With great distinction
Harlan Steele Thompson
VanAllen Treat
George Roscoe Vinsonhaler
Curtis Reynolds Walling
With distinction
Hugh L. Whisler
Milton Lawrence Wiedmann
With distinction
Andrew Curtis Wright

ENGLISH

Elsa Jean Barber
With great distinction
Lillian Follis Bidwell
David Birnie
Evelyn Eaton
Helen Spalding Falkner
Roland Chung Fang
Anna Thornton Fitzhugh
Virginia Rousseau Graves
Wen Ping Hsieh
Wana Myrle Keesling
Isabel Jane Kimball
Carol Klink
David Reed Lawrence
Finlay Angus McDermid
With distinction
Charles Longstreth McNichols
[2]Archibald Peet McVey
[2]Bernadine Moser
[1]James Creighton Muir
With distinction
[1]George Floyd Newbrough
Elizabeth Virginia Newton
Mary Helen O'Conor
[3]Elizabeth Parker
Catherine Margaret Paulsen

[1]Don DeBlois Perham
With distinction
Camilla Petersen
Frank Irwin Schultzberg
[1]Mary Irene Thompson
Yu Fang Tsi
Anna Marjory Tussing
Margaret Eva Watson

ENGLISH: Journalism

Margaret George Carvell
Velva Gertrude Darling
Dorothy Lucille Forch
Cora Gertrude McCorkle
[3]Della LaRue Taylor
[1]Carl Wilhelmson
With distinction

ENGLISH: Public Speaking

Margaret Allen Bailie
[1] Edythe Goodwin Baylis

GEOLOGY

Santiago Emigdio Aguerrevere
Frederic Andrew Bush
Joseph Edward Clark
William A. Clark
Harvey Linford Drew
[3]Linn Markley Farish
[3]Charles Scott Franklin
[2]Marcus DeWitt Leh
[2]Howard Austin McDonald
[1]William Pitkin Olmsted
Robert Ramey Porterfield
Frank Bronson Tolman

GERMANIC LANGUAGES

Walter Gieseke
Helen Dale Richardson

HISTORY

Edgar Melbourne Allen
Violet May Balcomb
With great distinction
Charis Eugenia Bentley
Mary Elizabeth Borton
With great distinction
Beatrice Louise Brailsford
Helen Katherine Broughall
With great distinction
Dorothy King Buchanan
Dudley Haskell Burney
[3]Adelbert John Buttrey
Sigurd Edward Bye
[3]Meribeth Elliott Cameron
With great distinction
[3]Kenneth Emerson Carnahan
Robert Stoner Chamberlain
With distinction
Grace Elizabeth Chase
DuWayne Gerald Clark
Lawrence Ted Cohn
Catherine Janett Craig
[2]Lynn Howard Crawford
Grace Darling
[3]James Ladd Delkin
Mary Virginia Dungan
Ellen Brailsford Elliott
With distinction
[2]Evelyn Kathleen Evans
[1]Robert Carlile Fleming
Helen Mae Friebel
[1]Ainslee Selby Grady

[2]David W. C. Harris
With great distinction
Grace Judd
With distinction
Russell Kiltin
David Albert Lamson
With distinction
[1]Beatrice Lee
Harold Boyd Long
Juilliard McDonald
Merian Ellen McElligott
[3]Evlyn McLaughlin
[1]Joyce Malinowsky
[3]Dora J. Mallory
Charlotte May Mayfield
Ellen Orpha Mead
Dorothy Farrar Meyer
Dorotha Rutter Pollock
[2]Earl Ramey
[3]Charles Alonzo Reese
Helen Elizabeth Renton
James Nelson Runyan
Frances Elizabeth Shepherd
Samuel Slaff
[3]Blanche Davis Hicks Slosson
[1]Ruby Walser Stevenson
Russell Cartwright Stroup
[3]Carolan M. Strouse
With great distinction
[2]Geraldine Estelle Watt
Dorothy Evelyn Williams

HISTORY: JOURNALISM

[1]Mary Chaney Hoffman
With great distinction

MATHEMATICS

[3]Ethel Freda Akey
With distinction
Marion Long Baker
With distinction
Dorothy Inéz Dahler
[2]Malcolm Davison
Margaret Fay Gilbert
Helen Butler Gridley
Stoddard Carleton Griffith
Edward George Harpoothian
Mary Craven Love
Helen Dorland MacNair
Marie Johanna Weiss
With great distinction

MILITARY SCIENCE AND TACTICS

Sartell Prentice, Jr.

PHILOSOPHY

George Whitfield Berkalew
[3]Tseng-Ku Chuan
Lois Fort
Katholeen M. Hillis
With distinction
Ruth Lenore Klahn
[2]Raymond Frakes Law
[3]Edward William Strong
[1]Chun Kao Teng
Colin Willis Timmons
With distinction
Julian Chapman Wright

PHYSICS

[2]Cedric Edward Hesthal
Russell Harrison Varian

PHYSIOLOGY

[1]Edward Merchant Butt
Earl Haskins Gray
Paul Edward Hoffmann

POLITICAL SCIENCE

Martin Hughes Gerry III
[1]James A. Clifford Grant
With distinction
Victor Hunt Harding
Elbert Jay Harward
Robert Ziemer Hawkins
With distinction
Henry Clarence Lamb
Robert McDonald Charles Littler
With distinction
[3]John Maclaren Marble
[2]Albert Nelson
Leslie Harber Peter, Jr.
Stanton Rippey
[1]Kwan Chun Shen
[1]Raymond Warner Smith
Chester A. Taft

POLITICAL SCIENCE: JOURNALISM

Curtis Bernard Leonard
Harold Bandow Rorke

PRE-CLINICAL SCIENCES

Albert Samuel Arkush
Harold Gerard Beeson
Frederick Alford Bennetts
Roswell Donaldson Borley
Norton Sager Brown
James Gilmore Carson
Henry Docfoo Cheu
Leonardo Oliver Desimone
Francis Harold Downing
Anthony Ambrose Ferrante
Morris Gordon
Ralph Denny Howe
Henry Arden Kimmel
Eric Guy Liljencrantz
Mahlon Daniel McPherson
Donald Carlyon Marshall
With great distinction
Marshall Irwin Mason
John Johnston Miller, Jr.
Clarence Henry Nelson
Raymond William Norberg
Roderick Alan Ogden
Edward Choate Pallette
Walter Scott Polland
With distinction
Lorenz Weir Ruddy
Theodore Paul Schomaker
Bertha Labaree Shedd
With great distinction
John Stewart Stephens
Kenneth Joseph Thompson
[2]Phillips Thygeson
Arthur Alexander VanDruten
Ralph Stanton Walker
John Madden Wright
Roscoe Lee Zieber

PRE-LEGAL CURRICULUM

Ephraim Adams
[3]Richard Lawrence Argue
Leonard Ray Avilla
[3]Charles Edward Beardsley
James Philip Biddison
[1]Andrew Richmond Boone
Herman Walter Broenkow
William Adlai Bullis
James Rae Bullock
Thomas Allen Campbell
John Edwin Carr
[3]Lloyd Charles Carver
Allan Earle Charles
Orion Frederick Clark
Arthur Cardinet Cohn
With distinction
Charles Elmer Collett
[3]Junior Jennings Collins
Calvin Halsey Conron, Jr.
[2]Wilson Craven
With distinction
[2]Lewis Hall Cromwell
With great distinction
David Lloyd Davies
[3]William James Dickey
Leslie Harrison Dills
John Cushing Duniway
With distinction
[1]Robert Horatio Edwards, Jr.
[3]Raymond Mervy Farley
[1]Alan James Fewel
Charles Edward Foye
With distinction
[1]Frank Wastie Fuller, Jr.
Lewis Alberto Gibbons, Jr.
Cutler Worthington Halverson
Lorimer Benton Harrell
Walter Grant Hays
Harold LeRoy Hjelm
Floyd Edward Hoffmann
Harley Corwin Hubbard
Peter Richard Hurley
Clinton LaTourrette
[3]Donald Taylor Lauer
With distinction
Hugh Miller Lindsey
Lawrence Michael Linneman
George Porter Lombard
Charles Edward Luckhardt
[3]Ruth Adella McBride
Ralph Edwin McClinton
[2]Merl Langdon McHenry
With distinction
[3]John Cresco McHose
Raymond Montgomery Merrill
Sheldon Spencer Milliken
[3]George Shuichi Mizota
[1]Marcus Fae Morrison
Alice Elizabeth Myers
Robert Pearce Myers
[3]Phillip Franklin Neer
David Melvin Oliva
Robert Henry Rinn
With great distinction
[1]Milo Edwin Rowell
Raymond Theodore Senior
[3]Ira Lawrence Sherman
Edgar Tevis Smith
George Keil Smith
[3]James Hall Snell
[2]Percival Innes Vernon Spencer
[1]Robert Phillip Spencer
[3]Walter Augustus Starr, Jr.
Everett Horace Swing
Edson Gay Thomas
[3]Fred Aldrich Treat
Oscar A. Trippet II
[3]George Gavin Updegraff

[2]Claude Emerson Wakefield
Gilbert Collins Wheat
John Sheldon Williams, Jr.
[1]George Howard Wilson
Paul Theodore Wolf
With great distinction
William Beatty Wright

PRE-MINING CURRICULUM

[3]William Elliott Burdick
Stephen Walter Burke
[1]Jack Macfarlane Ehrhorn
[1]Mark Howard Evans
Herbert Hoover, Jr.
Allen Andrew Jergins
Henry Lloyd Millar
Victor Julian Minner
With great distinction
Charles Olney Nave
[3]Robert Hatch Nelson
[1]Ernest Kempe Parks
[3]Orson Cutler Shepard
[3]Paul Jerome Voss

PSYCHOLOGY

Sadie Aaron
With great distinction
[1]Barbara Stoddard Burks
With distinction
Edith Mildred Burlingame
With distinction
Sterling Sherman Cramer
[1]Doris Irene Harter
Grace Peterson
With distinction
Rene Levy Rothschild
Marion Ellis Steele
Henriette Kathrynn Woolf
Katharine Frances Zener

ROMANIC LANGUAGES

Angel Demetrio Aguerrevere
[2]Beatrice Broughton
Alberta Curtner
Alice Dodds
Helen Baker Fuller
Margaret Harroun
Joanna Oliver Holbrook
Helen Dorothy Howes
[1]Elizabeth Grace Joyce
[2]Helen Margaret Knight
With distinction
Edward Charles LaForge
Laura May Lorraine
With distinction
Gertrude Eloise McLeod
Roma L. Mitchell
Elisabeth Crocker Simmons
[3]Genevieve Susan Stichter
With distinction
Mary Ruth Stucky
With great distinction
[1]Harry Day Todd
Marian Abigail Trist
With great distinction

SCHOOL OF SOCIAL SCIENCES

Ruth Carol Davis
Elizabeth Morris Gleason
Mildred S. Hall

ZOOLOGY

Philip Norman Baxter
With distinction
Morton Raymond Gibbons, Jr.
Harold Hartley Greene
George Cameron Kelso
[1]Edward Dimmick King
Albert Paul Krueger
With great distinction
Harry Richard Lusignan
Samuel Marion Martins
Er Chang Ping
Harriet Frederica Price

ZOOLOGY: ENTOMOLOGY

William Hyde Irwin
[2]James Bryden Kelly
[3]Milton McKevett Teague
With distinction

BACHELOR OF LAWS

Donald Cameron Brooks
[1]John D. Fredericks, Jr.
[3]Michael James Lavelle
Lewis Hayd Leve
[3]William Errol Licking

MASTER OF ARTS

ANATOMY

[2]Sophie de Aberle
A.B., Stanford

BACTERIOLOGY AND EXPERIMENTAL PATHOLOGY

[3]Margery Stone McCullough
A.B., Mills College

SCHOOL OF BIOLOGY

Wayne Alvin Durston
A.B., Stanford
[2]Ralph Victor Ellis
A.B., Stanford
[2]Helen Hartley Greene
A.B., Stanford

BOTANY

[2]Rimo Charles Bacigalupi
A.B., Stanford
Gilbert Thereon Benson
A.B., Stanford
Dorothy Grace Burgess
B.S., Montana State College
Lyman Harry Daugherty
A.B., Stanford
[2]Magnus Ingstrup Gregersen
A.B., Stanford
Ira Loren Wiggins
A.B., Occidental College

CHEMISTRY

[3]Dana Burks, Jr.
A.B., Stanford

Eleanor Kathleen Chambers
A.B., University of California

Harriett Amanda Hippard
A.B., Western Reserve University

[1]Kenneth Keith Kelley
A.B., Stanford

[1]Raymond Irvin King
A.B., Stanford

Joseph Blake Koepfli
A.B., Stanford

Robert Barfe Peet
A.B., Stanford

Charles Russel Timpany
A.B., Stanford

[1]Horace Edward Wheeler
A.B., Stanford

Fleta Hazel Williams
A.B., Stanford

CLASSICAL LITERATURE

[2]Cecile Mae Coulthard
A.B., University of Michigan

Michael Flanagan
A.B., National University of Ireland

[3]Mary Foley
A.B., College of the Sacred Heart

Lucile Jane Fox
A.B., College of the Sacred Heart

Katherine Ann McGarry
A.B., College of the Sacred Heart

[3]Pauline Gertrude Marum
A.B., College of the Sacred Heart

ECONOMICS

Philip Meader Brown
A.B., Brown University

[1]Herbert Gerdts Florcken
A.B., Stanford

George William Lysaght
A.B., Stanford

Carl Burton Robbins
A.B., Stanford

[1]Mathew Oscar Tobriner
A.B., Stanford

Harry Dexter White
A.B., Stanford

EDUCATION

Jane Elizabeth Adams
A.B., Stanford

Hollis Partridge Allen
A.B., Pomona College

John Aseltine
A.B., Stanford

[3]Elizabeth Jane Briggs
A.B., Willamette University

Edwin John Brown
B.S., Kansas State Teachers College

George Archibald Brown
B.S., Kansas State Teachers College

James Matthew Burgess
A.B., University of Oregon

[1]Charles Allen Carson
A.B., University of Arizona

Timon Covert
B.S., Kansas State Teachers College

[2]Mary Alice Cronin
A.B., Stanford

[1]Edward Detlar Gallagher
A.B., Valparaiso University

[3]Herman Elert Hendrix
A.B., Northwestern College

[3]Milton B. Jensen
B.S., Utah Agricultural College

Grayson Neikirk Kefauver
A.B., University of Arizona

[3]Roy Ernest Learned
A.B., College of the Pacific

[2]Ruby Minor
B.S., Columbia University

[1]Everett Kingsley Mohr
A.B., Stanford

[1]Claude Walter Randall
A.B., University of California

[3]Elmer Hubert Staffelbach
A.B., Stanford

Varsen Marina Topoozian
A.B., University of California

Henrietta Wahlenmaier
B.S., Ohio State University

[3]William Edwin Wiley
A.B., State College of Washington

[2]Arthur Elias Yoder
B.S., Pacific University

EDUCATION: Graphic Art

Dorothea Miller Clark
A.B., Stanford

ENGLISH

Parley A. Christensen
B.S., Utah Agricultural College

[2]Frank L. Fenton
A.B., Stanford

[1]Robert Brassil Fitzgerald
A.B., University of Arizona

George Rankin Mitchell
A.B., Stanford

[1]Homer Garrison Pfander
A.B., Lake Forest College

Frederick Raleigh Pond
A.B., Stanford

Dorothy Cecelia Schilling
A.B., Stanford

Wallace Joseph Vickers
B.S., Utah Agricultural College

Anne Terry White
Ph.B., Brown University

GEOLOGY

Clifford Carl Church
A.B., University of Oklahoma

Harold Frederick Lynn
A.B., Stanford

Harold Gentry Mitchell
B.S., University of Utah

[3]Henry Mulryan
A.B., Stanford

Ruthven Wedgwood Pike
B.S., University of Chicago

GERMANIC LANGUAGES

[2]Ethel Anna Taylor
A.B., University of Michigan

HISTORY

Thomas Andrew Bailey
A.B., Stanford

Esther Caukin
A.B., Mills College

Don Marquis Chase
A.B., Stanford

[1]Helen Loretta Connell
A.B., University of Washington

Mabel Letitia McCanse
A.B., Stanford

Helen Beulah McMurry
A.B., College of the Pacific

Stella Dorothy Shepard
A.B., Stanford

HYGIENE AND PUBLIC HEALTH

Lucy Eleanor French
A.B., University of California

MATHEMATICS

Mildred Dorris
A.B., Stanford

Violet Virginia Knowles
A.B., Stanford

[1]Helen Henrietta Kaseberg
A.B., Stanford

Luella Marie Rackliff
A.B., Stanford

Clarence N. Westigard
A.B., Stanford

PHYSICS

William Lyle Allred
A.B., Brigham Young College

Bernard David Holbrook
A.B., Stanford

Masick Charles Magarian
B.S., Massachusetts Institute of Technology

PHYSIOLOGY

John Ferguson
A.B., University of Toronto

POLITICAL SCIENCE

James A. Clifford Grant
A.B., Stanford

[1]Ernest William McFarland
A.B., University of Oklahoma
J.D., Stanford

Tsong-Hsun Tsui
A.B., Stanford

PSYCHOLOGY

Helen P. Davidson
A.B., Stanford

Doris Irene Harter
A.B., Stanford

Rita Leone Durkheimer
A.B., University of Oregon

[1]Eugene Shen
A.B., Stanford

ROMANIC LANGUAGES

[1]Frederick William Bachmann
A.B., Stanford

[1]Viola Marie Dorsey
A.B., College of the Sacred Heart

Elizabeth Eakin
A.B., Pomona College
[2]Ivan Freeman Healton
A.B., Stanford
John McClelland
A.B., Stanford
[1]Dorothy Marie Riggs
A.B., Stanford
[2]May Vertrees
A.B., Stanford

ENGINEER

CHEMICAL ENGINEERING

Dionisio Martinez Birosel
A.B., College of the Pacific
M.S., University of Southern California
Henry Carl Dellepiane
A.B., Stanford
William Kenneth Nelson
A.B., Stanford
John Bear Stone
A.B., Stanford
Thayer Wardell Whitcomb
A.B., Stanford
Paul Curtis Wilbur
A.B., Stanford

ELECTRICAL ENGINEERING

DeWitt Clinton Bertrand
A.B., Stanford
Lloyd Edgar Graham
A.B., Stanford
Clarence Theodore Hesselmeyer
A.B., Stanford
Jaroslaw K. Kostko
Licencié ès Sciences, University of Paris
Electrical Engineer, Institute of Electrotechnics of Paris
Donald William Perry Larnach
A.B., Stanford
Charles Vincent Litton
A.B., Stanford
Theodore Malvin Matson
A.B., Stanford
[3]Herman Potts Miller, Jr.
A.B., Stanford
Gishichi George Okada
B.S., University of California
Philip Forest Scofield
A.B., Stanford
William Boring Snow
A.B., Stanford
[3]Clinton Hamilton Suydam
A.B., Stanford
Rensuke Usui
A.B., Tokyo Technical College

MECHANICAL ENGINEERING

[2]Raymond Case Durant
A.B., Stanford
Patrick Foster Mumford
A.B., Stanford

MINING AND METALLURGY

Loran Andrew Creglow
A.B., Stanford
Albert Edmund Forster
A.B., Stanford
Elmer Ellsworth Maillot
A.B., Stanford
Dwight Conklin Roberts
A.B., Stanford

JURIS DOCTOR

James Harold Anglim
A.B., Stanford
Alfred Aram
A.B., University of Arizona
Josiah Horton Beeman
B.S., University of Oregon
Bertrand Adolph Bley
A.B., Stanford
[3]Gilbert Denison Boalt
A.B., Stanford
[3]Robert Paul Cahen
A.B., Stanford
[2]Mark Madison Cohen
A.B., Stanford
[1]James Adelefeld Flanagan
A.B., Miami University
Robert Gay Hooker, Jr.
A.B., Harvard University
[1]Russell Boyden Jarvis
A.B., Stanford
Arthur Harold Kent
A.B., University of Southern California
[2]Roland Thomas Kinney
A.B., Stanford
[1]Edward Durley Landels
A.B., Stanford
Bertram William Levit
A.B., Stanford
[2]Harold Edward McCombie
A.B., Stanford
Gasper H. Magarian
A.B., Stanford
[1]Albert Mosher
A.B., Stanford
[3]Christine Murdoch
A.B., Stanford
[2]Robert Taylor Patton
A.B., Stanford
Algot Julius Peterson
A.B., Stanford
Harold Orum Preston
A.B., Stanford
Joseph Clifford Prior
A.B., Stanford
[3]Emmet Cloyd Rittenhouse
A.B., Stanford
[1]Milton Snyder Rosenfield
A.B., Stanford
[3]David Lee Rosneau, Jr.
A.B., Yale University
Gilford Glenn Rowland
A.B., Stanford
[1]Ralph S. Scott
A.B., George Washington University
James Parley Smith
A.B., Stanford
[1]Philip Grey Smith
A.B., Stanford
[1]Frank Seymour Turner
A.B., Stanford
Montgomery Ellsworth Winn
A.B., Stanford

DOCTOR OF MEDICINE

Reo Bliss Armitstead
A.B. and A.M., Stanford
Ernest Lloyd Botts
A.B., Stanford
Walter Harrington Boyd
A.B., University of Southern California
George Dewey Brown
A.B., Stanford
Albert Kalem Chorbajian
A.B., Stanford
Esther Bridgman Clark
A.B., Stanford

Bernard Anthony Cody
A.B., Stanford
Stanley Dougan
B.S., Ohio University
William Fritschen
A.B., Stanford
Ruth Garland
A.B., Stanford
William LeRoy Garth
A.B., Stanford
Mark Gerstle, Jr.
A.B., Stanford
Ernest Mosiah Hall
A.B., Brigham Young University
M.S., State College of Washington
Matthew Emery Hazeltine
B.S., University of California
A.B., Stanford
James Gordon Henderson
A.B., Stanford
Robert Elwyn Hughes
A.B., Stanford
Paul Burt Kinney
A.B., Stanford
Mary Hewitt Loveless
A.B., Stanford
Francis Randolph McCrea
A.B., Stanford
Frank Allan MacDonald
A.B., Stanford
Arthur Carol McKenney, Jr.
A.B., Stanford
Reed Miller Nesbit
A.B., Stanford
Ruth Allen Nethercut
A.B., Stanford
Aubrey Gatliff Rawlins
A.B., Stanford
Harry A. Somerfield, Jr.
A.B., Stanford
Maurice Lane Tainter
A.B. and A.M., Stanford
Thomas Bertram Williams
A.B., Stanford
Joseph Dwight Wilson
A.B., University of Oregon

DOCTOR OF PHILOSOPHY

BOTANY, PALEOBOTANY

Flora Murray Scott
B.S., St. Andrew's University

CHEMISTRY, ORGANIC CHEMISTRY

[3]Faw-Yap Chuck
A.B. and Engineer, Stanford

CHEMISTRY, PHYSIOLOGY

[3]David Bruce Dill
B.S., Occidental College
A.M., Stanford

EDUCATION, ENGLISH

[1]Lucia Bush Mirrielees
A.B., Stanford

EDUCATION, PSYCHOLOGY

[1]Marvin Lloyd Darsie
B.S., Hiram College
A.M., Stanford

[1]Albert Ray Lang
A.B., Nebraska Wesleyan University
A.M., University of Nebraska

[1]Thomas William MacQuarrie
A.B. and A.M., Stanford

[1]Frank Seely Salisbury
A.B. and A.M., University of Washington

ENGLISH, GERMAN

Raymond Walker Barry
A.B., Ohio Wesleyan University
A.M., Stanford

ENTOMOLOGY, PALEONTOLOGY

Vasco Myron Tanner
A.B., Brigham Young University
A.M., University of Utah

GEOLOGY, ARCHEOLOGY

[3]Albert B. Reagan
A.B. and A.M., University of Indiana

GEOLOGY, PALEONTOLOGY

[1]Frederick Paul Vickery
B.S., University of California
A.M., Stanford

GEOLOGY, PETROGRAPHY

Harold William Hoots
B.S., University of Oklahoma

HISTORY, ECONOMICS

Paul Hibbert Clyde
A.B. and A.M., Stanford

HISTORY, EDUCATION

[2]Samuel Benedict Hepburn
A.B. and A.M., Indiana University

PALEONTOLOGY, GEOLOGY

Colin Hayter Crickmay
A.B., University of British Columbia

POLITICAL SCIENCE, HISTORY

Frank Marion Russell
A.B. and A.M., Stanford

PSYCHOLOGY, EDUCATION

[1]George True Avery
A.B., University of Colorado
A.M., Harvard University

[1]James Clarence De Voss
A.B. and A.M., University of Colorado

[1]Florence Laura Goodenough
B.S. and A.M., Columbia University

PSYCHOLOGY, GERMANIC LANGUAGES

[2]Catharine Morris Cox
A.B. and A.M., Stanford

PSYCHOLOGY, PHILOSOPHY

[1]Heinrich Klüver
University of Berlin

FELLOWS AND SCHOLARS

1924–25

FELLOWS

Lionel Remond Lenox Fellow in Chemistry

Oliver Wolcott Johnson (Chemistry) ..... Palo Alto
A.B., Stanford, 1921; Engineer, 1922

Teaching Fellows in Chemistry

Elton Fred Cornell (Chemistry) ..... Sunnyvale
A.B., Stanford, 1923; A.M., 1924

[2][4]Ruth Fulton (Chemistry) ..... Vancouver, B. C.
A.B., University of British Columbia, 1918; A.M., 1919

Cubberley Fellow in School Administration

Howard Rice Taylor (Education) ..... Palo Alto
A.B., Pacific University, 1914; A.M., Stanford, 1923

Commonwealth Fund Fellow

[3]Cecil Robert Brolyer (Psychology) ..... Stanford University
A.B., Stanford, 1923

Charles A. Coffin Foundation Fellow in Electrical Engineering

Clarence Theodore Hesselmeyer (Electrical Engineering) ..... San Francisco
A.B., Stanford, 1924; Engineer, 1925

Cyril F. Elwell Fellow in Electrical Engineering

Joseph Snyder Carroll (Electrical Engineering) ..... Provo, Utah
B.S., University of Utah, 1920; Engineer, Stanford, 1924

Fellows in Food Research

David Bruce Dill (Chemistry) ..... Los Altos
B.S., Occidental College, 1913; A.M., Stanford, 1922; Ph.D., 1925

John Field II (Chemistry) ..... Palo Alto
A.B., Stanford, 1923; A.M., 1924

Joseph Grant Knapp (Economics) ..... Chicago, Ill.
B.S., University of Nebraska, 1922; A.M., 1923

National Research Council Fellows

[23]Clinton Hobart Thienes (Pharmacology) ..... Portland, Ore.
A.B., University of Oregon, 1918; A.M., 1923; M.D., 1923

[3]Harry S. Read (Physics) ..... Stanford University
Ph.D., Cornell, 1924

Thomas Welton Stanford Fellow in Psychic Research

John Edgar Coover ..... Stanford University
A.B., Stanford, 1904; A.M., 1905; Ph.D., 1912

University Fellows

Paul Hibbert Clyde (History) ..... Victoria, B. C.
A.B., Stanford, 1921; A.M., 1922; Ph.D., 1925

[12]Earle Theron Engle (Anatomy) ..... Boulder, Colo.
A.B., Nebraska Wesleyan University, 1920; A.M., University of Colorado ,1924

[3]Hazel Dorothy Hansen (Classical Literature) ..... San Mateo
A.B., Stanford, 1920; A.M., 1921

Harold W. Hoots (Geology) ..... Lawrence, Kan.
B.S., University of Oklahoma, 1921; Ph.D., Stanford, 1925

Helen Marburg (French) ..... Montclair, N. J.
A.B., University of London, 1914

Flora Murray Scott (Botany) ..... St. Andrews, Scotland
A.M., St. Andrews University, Scotland, 1911; B.Sc., 1914; Ph.D., Stanford, 1925

Francis Albert Smith (Chemistry) ..... Palo Alto
A.B., Stanford, 1922

Vasco Myron Tanner (Entomology) ..... St. George, Utah
A.B., Brigham Young University; A.M., University of Utah, 1920;
Ph.D., Stanford, 1925

SCHOLARS

Alumni Jordan Scholars

Archie Ward Henry (Medicine) ..... Pullman, Wash.
B.S., State College of Washington, 1910; A.B., Stanford, 1923

Cletus Stephen Sullivan (Medicine) ..... Santa Clara
A.B., Stanford, 1922

The George E. Crothers Scholars

[234]George Madison Nowell (Law) ..... Palo Alto
A.B., Stanford, 1923

Joseph Clifford Prior (Law) ..... Sheffield, Ill.
A.B., Stanford, 1924; J.D., 1925

[4]William Edward Wright (Law) ..... Stockton
A.B., Stanford, 1924

The Ira S. Lillick Scholar

Arthur Harold Kent (Law) ..... Altadena
A.B., University of Southern California, 1917; J.D., Stanford, 1925

The Mrs. Ira S. Lillick Scholar

Algot Julius Peterson (Law) ..... Palo Alto
A.B., Stanford, 1923; J.D., 1925

The Margaret Sidney Scholar

Fleta Williams (Medicine) ..... Stanford University
A.B., Stanford, 1920; A.M., 1925

The John Maxson Stillman Scholar

Dana Burks, Jr. (Chemistry) ..... Palo Alto
A.B., Stanford, 1924; A.M., 1925

University Scholars

[3]W. Lyle Allred (Physics) ..... Logan, Utah
A.B., Brigham Young College, 1909; A.M., Stanford, 1925

James Harold Anglim (Law) ..... Represa
A.B., Stanford, 1923; J.D., 1925

John Aseltine (Education) ..... San Diego
A.B., Stanford, 1924; A.M., 1925

Thomas Andrew Bailey (History) ..... San Jose
A.B., Stanford, 1924; A.M., 1925

Emily Mary Bartlett (Botany) ..... Orono, Maine
A.B., University of Maine, 1912; A.M., 1917

Joseph Brunet (French) ..... Stanford University
A.B., Stanford, 1923; A.M., 1924

Valdi Rounds Bush (Medicine) ..... Oakland
A.B., Stanford, 1924

[5]Esther Caukin (History) ..... Berkeley
A.B., Mills College, 1924; A.M., Stanford, 1925

[12]Mary Katherine Chase (French) ..... Stanford University
A.B., Stanford, 1922

[3]Parley A. Christensen (English) ..... Logan, Utah
B.S., Utah Agricultural College, 1914; A.M., Stanford, 1925

[23]Leon Thomas David (Law) ..... Vallejo
A.B., Stanford, 1924

Helen Pye Davidson (Psychology) ..... New Westminster, B. C.
A.B., Stanford, 1924; A.M., 1925

Edith Dobie (History) ..... Long Beach
A.B., Syracuse University, 1914; A.M., Chicago, 1922

[1]Earl Meadow Dunbar (Law) ..... Palo Alto
A.B., Wooster College, 1921

Muriel Emma Edwards (Medicine) ..... Wallace, Idaho
A.B., Stanford, 1921

James A. Clifford Grant (Political Science) ..... Los Angeles
A.B., Stanford, 1924; A.M., 1925

Arthur Joseph Graves (History) ..... Palo Alto
A.B., University of the City of Toledo, 1921

[3]Gale Charles Griswold (Chemistry) ..... Modesto
A.B., Stanford, 1925

Frederic Dooley Hanson (Mining) ..... Los Angeles
A.B., Stanford, 1924

Vern James (Mathematics) ..... Pittsburgh, Penn.
A.B., Indiana State University, 1912; A.M., Columbia University, 1916

Donald Eliot King (Medicine) ..... Porterville
A.B., Stanford, 1923

[1]Eldon A. Long (Mechanical Engineering) ..... San Francisco
A.B., Stanford, 1924

Dell Theodore Lundquist (Medicine) ..... Middletown
A.B., Stanford, 1922

[12]Margery Stone McCullough (Bacteriology) ..... Los Angeles
A.B., Mills College, 1923; A.M., Stanford, 1925

John Ralph Nichols (Education) ..... Cutler
B.S., Oregon State Agricultural College, 1922

Barbara Nolen (History) ..... Cambridge, Mass.
A.B., Smith College, 1924

Frederick Raleigh Pond (English) ..... Napa
A.B., Stanford, 1924; A.M., 1925

[12]Embree Rector Rose (Chemistry) ..... Linton, Indiana
A.B., Indiana, 1919; A.M., 1922

[1]DeWitt Clark Rowland (Geology) ..... Stanford University
A.B., Stanford, 1924

Gilford Glenn Rowland (Law) ..... Stanford University
A.B., Stanford, 1923; J.D., 1925

Pearl Mabry Smith (Medicine) ..... Los Angeles
A.B., University of Wisconsin, 1916

Homer Pearson Struble (Medicine) ..... Penryn
A.B., Stanford, 1922

Vasco Myron Tanner (Entomology) ..... St. George, Utah
A.B., Brigham Young University; A.M., University of Utah, 1920;
Ph.D., Stanford, 1925

John Orren Vaughn (Medicine) ..... Pasadena
A.B., Stanford, 1924

Wallace J. Vickers (English) ..... Logan, Utah
B.S., Utah Agricultural College, 1912; A.M., Stanford, 1925

[3]William Edward Wright (Law) ..... Stockton
A.B., Stanford, 1924

The Alumni Scholar

John Gilhousen Sobieski (Lower Division) ..... Los Angeles

The B. P. O. E. Scholar

Cranston William Holman (Lower Division) ..... San Francisco

The Baldwin Scholars

Frank Carlyle Harmon (Lower Division) ..... Santa Clara
Seraphim Fred Post (Lower Division) ..... Berkeley

The Bertha Hyde Braly Scholars

Ethel Freda Akey (Mathematics) ..... Fresno
Violet May Balcomb (History) ..... Palo Alto

The Cap and Gown Scholar

Roberta Hasty Mitchell (Chemistry) ..... San Jose

The Colonial Dames Scholar

Elsa Jean Barber (English) ..... Livermore

The E. C. Converse Scholars

Chester Wiggin Blackman (Lower Division) ..... Los Angeles
Helen Katherine Broughall (History) ..... Los Angeles
Eleanor Davidson (Lower Division) ..... San Leandro
Edward Murray Draper (Lower Division) ..... San Bernardino
Carolyn Frances Gooden (Lower Division) ..... Los Angeles
Vilho John Hellman (Lower Division) ..... Fort Bragg
Harold Preston Hill (Lower Division) ..... Grenada
Yoshio Ichikawa (Economics) ..... Hiroshima, Japan
Malcolm Nixon Jones (Lower Division) ..... San Bernardino
Louis Billings Lundborg (Lower Division) ..... Billings, Mont.
Allan James Meadowcraft (Civil Engineering) ..... Modesto
[12]Harold Louis Rorden (Mechanical Engineering) ..... Petaluma
William Jasper Travers, Jr. (Lower Division) ..... Placentia

The Mabel Hyde Cory Scholars

[12]Meribeth Elliott Cameron (History) ..... Santa Monica
[4]Katherine Frances Capell (History) ..... Council Bluffs, Ia.
[3]Helen Margaret Erskine (History) ..... Hollywood

The William S. Cranston Memorial Scholar

[12]Margaret Louise Jeannin (Lower Division) ..... Pasadena

The W. J. Dickey Scholars

Leonard Garrard Dobson (Zoology) ..... Fresno
Kenneth Wade Thompson (Pre-Medical) ..... Fresno

The Henry G. Dodds Scholars

[3]Frederick Emanuel Crever (Mechanical Engineering) ..... San Jose
[1]Albert Goodwin (Lower Division) ..... Gilroy
[12]Edward Lindsey Winterbotham (Lower Division) ..... Riverside

The Orrin W. Dunn Scholar

Theodore Raymond Haseltine (Civil Engineering) ..... Crockett

The Hiram C. Fisk Scholar

Douglas Low King (Law) ..... Santa Cruz

The Gertrude Gardiner Scholar

Sadie Aaron (Psychology) ..... Kennewick, Wash.

The Wilmer J. Gross Scholar

Richard Kapp Hubbard (Lower Division) ..... Los Angeles

The Brodie G. Higley Scholar

John Young Springer (Lower Division) ..... Palo Alto

The E. W. Hopkins Scholars

[3]Cecil Thane Doll (Lower Division) ..... Redondo Beach
Yale Candee Maxon (Lower Division) ..... Campbell
Lawrence Mitchell (Lower Division) ..... Berkeley
Vivian Albert Morley (Lower Division) ..... Bakersfield
Theodore Julius Nelson (Lower Division) ..... San Jose
[12]Edna May Owen (Lower Division) ..... Napa
Iola Alma Page (Lower Division) ..... Alameda
[3]Bertha Nanelia Siegfried (Lower Division) ..... Palo Alto

The Charles Andrews Huston Memorial Scholars

[1]Wilson Craven (Law) ..... Bellingham, Wash.
[23]Alfred Amasa Miller (Law) ..... Seattle, Wash.

The Ernest A. Love Scholar

Frederick Wallace Borden (Chemistry) ..... San Jose

The Mrs. McDowell Roble Club Scholar

Bertha Labaree Shedd (Pre-Clinical) ..... San Jose

The Dorothy Metz Scholars

Raymond Robert Bruce (Lower Division) ..... Glendale, Ariz.
[12]Donald Taylor Lauer (Law) ..... Payette, Idaho
[3]Berneice Marjorie Little (Lower Division) ..... Eureka

The Palo Alto Public School Scholar

[3]Walter Grant Hays (Law) ..... Palo Alto

The Marcelle Henriette Rouiller Scholar

Marcel Alfred Lissman (Mechanical Engineering) ..... Sacramento

The San Mateo High School Regional Scholars

Edith Antoinette Mattson (Lower Division) ..... San Bruno
[12]Ruth Lee Spilman (Lower Division) ..... Palo Alto

The Leon Sloss Scholars

John Adolph Mancini (Civil Engineering) ..... Hayward
Genevieve Susan Stichter (French) ..... Cupertino

The Leland Stanford Junior Memorial Scholar

Victor Julian Minner (Mining) ..... Carbondale, Ill.

The Stanford Scholar

Roy Armand McClure (Lower Division) ..... San Bernardino

The Stanford Women's Club of San Francisco Scholar

Carol Klink (English) ..... San Francisco

STUDENTS

Name; home residence; major subject; status; University residence; postoffice. Postoffice in all cases *Stanford University* except where University residence is followed by initial letter of town ('p' indicates *Palo Alto* postoffice; 'Mayfield-m,' *Mayfield* postoffice, etc.). Street address *Palo Alto* or *Campus* unless otherwise named. The numbers (or letters) in italics after the university address are Stanford University postoffice box numbers (or box letters).

Status.—gr., graduate student; sp., special student. The figures after major subject indicate, first, the number of units of university work completed (and counting toward the 180 units required for graduation), no account being taken of 'deferred,' 'incomplete,' or 'conditioned' work; second, the number of grade points in excess of, or falling short of, the number of registered units ('+ 20', in excess; '— 20', deficient). Where two numbers (separated by a point) precede the plus or minus sign, the first indicates the number of units of advanced or other credit to which the grade-point system does not apply; thus, 45·50 + 10 means that the total credit is 95 units, but that the + 10 grade points are based upon the 50 units only.

The superior figure 1 indicates registration for the autumn quarter only; 2 indicates winter quarter only; 3 indicates spring quarter only; 4 indicates summer quarter only; 12 indicates autumn and winter quarters only; 23 indicates winter and spring quarters only; 13 indicates autumn and spring quarters only; 5 indicates autumn, winter, spring, and summer quarters. The asterisk (*) indicates registered *in absentia;* the double dagger (‡) indicates unadjusted standing from other colleges and universities. (Phys.=Physics; Phyl.=Physiology.)

Aaron, Sadie A.B., Stanford, 1925	Kennewick, Wn.	Psych. 84·122+148	240 Roble
[12]Abbe, Ellis Russell	Los Angeles	LD 61+51	250 Toyon-*1982*
[1]Abbott, Cecil Vetus	Chrisney, Ind.	Pol. S. 24·98–5	21 Salvatierra
[4]Abbott, Herbert Louis B.E., California, Southern Branch, 1923	Venice	Law gr.	345 Lincoln
[4]Abbott, Robert Bisbee A.B., California, 1922	Fresno	Educ. gr.	312 Union
[4]de Aberle, Sophie A.B., Stanford, 1923, A.M., 1925	Palo Alto	Anat. gr.	252 Kingsley-p
Abramson, John Hilty	Los Angeles	LD 51–6	200 Encina
[12]Acheson, Joseph Heron A.B., Stanford, 1925	Berkeley	Econ.45·135+10	Community House
[5]Achilles, Theodore Carter	Morgan Hill	Phil.21·132+90	Beta Theta Pi-*1335*
[2]Ackley, Robert Langdon	Los Angeles	LD 20·10+5	
[34]Ackley, Ruth Dickinson	Tucson, Ariz.	Phil. 78·97+12	154 Roble-*1873*
Acres, Lawrence Hobbs	Los Angeles	Pre-Med.45·92+144	A.S.Phi-*1357*
Acres, Thomas Harold	Los Angeles	LD 95+126	Alpha Sigma Phi-*1357*
[4]Adams, Bertha Dellow A.B., Western Reserve, 1900	Santa Cruz	Educ. gr.	136 Harriet
[1]Adams, Bradford Clarendon	Los Angeles	Zool. 145+72	244 Toyon-*1351*
Adams, David Snell	Woodland	LD 44+71	210 Encina-*1974*
Adams, Donald Galen	Riverside	Law 139+59	118 Toyon-*1248*
Adams, Elmore Cox	Palo Alto	LD 123+12	Sigma Chi-*628*
Adams, Ephraim A.B., Stanford, 1925	Turlock	Law 187+122	134 Branner-*833*
Adams, James Lyman	Long Beach	LD 90+77	Delta Kappa Eps.-*OO*
Adams, Jane Elizabeth A.B., Stanford, 1924, A.M., 1925	San Diego	Educ. gr.	Madroño
Adams, John Clair	San Jose	LD sp.32–7	371 Hanchett Ct.,SJ-sj
Adams, John Martin	Klamath Falls, Ore.	LD 126+46	Pacific Grove-pg
[12]Adams, John Payson	Oakland	LD 57–19	Theta Delta Chi-*T*

[4]Adams, Karl Frouss A.B., Hamilton, 1908, A.M., 1917	Santa Cruz	Educ. gr.	136 Harriet
[4]Adams, Katherine Barkley	Ardmore, Okla.	Engl. ‡	Roble
[4]Adams, Katherine Pressly A.B., Pomona, 1924	Claremont	Psych. gr.	Bessinger Colony-*1172*
[23]Adams, Lawson Sibley	Belvedere	LD 5–9	353 Encina
[4]Adams, Margaret Grace	Los Altos	LD 16·13+9	330 Roble-*1436*
Adams, Marvin	Los Altos	LD ‡ 67–6	Los Altos
[4]Adams, Mary Elizabeth	Riverside	LD	Kingscote-*1248*
Adams, Wilbur Forest	Sacramento	LD 82+5	Phi Gamma Delta
Adelsbach, Cleo Garland	Visalia	LD 31+25	106 Encina-*1014*
[12]Affonso, Arthur S.	Tracy	LD 18–10	31 Encina-*643*
[4]Agar, Lucy Marsden B.L., California, 1910	Redwood City	Engl. gr.	Selby Lane, RC–rc
[5]Aguerrevere, Angel D. A.B., Stanford, 1925	Caracas, Ven'zla	Span. gr.	213 Emerson
Aguerrevere, Santiago E. A.B., Stanford, 1925	Caracas, Ven'zla	Geol. 196+143	302 Union-*1484*
[4]Ahmquist, M. Edith B.E., Washington, 1921	Tacoma, Wn.	Sch. Ed. gr.	661 Gilman-p
[2]Aiken, Douglas Sedgwick	Los Altos	LD 19–7	36 Sequoia
Ainsworth, Addis L	Thompson Falls, Mont.	LD 38+26	114 Toyon-*1233*
[5]Aitken, William E.	Antifagasta, Chile	Geol. 75–6	248 Toyon-527
[5]Akey, Ethel Freda A.B., Stanford, 1925	Fresno	Math. gr.	Manzanita-*1264*
Aldahl, Joyce Erville	Long Beach	LD 45+26	209 Encina
Alden, Donald Hitt	Palo Alto	LD 45·46+59	427 Embarcadero-p
[4]Alekian, Alexander E.	Chicago, Ill.	Econ. 90·78–5	204 Union-*1433*
Alexander, Alden Hay A.B., Stanford, 1923	Riverside	Med. gr.	2319 Webster, SF-sf
[5]Alexander, Tom Charles	Kansas City, Mo.	Econ. 148+5	Delta Tau Delta-*1363*
[5]Alison, Etta Lucille	Campbell	Econ. 121+16	177 Roble-*1006*
[5]Allen, Arden Joseph	Oakland	Engl. 122+46	445 Hamilton-p
Allen, Edgar Melbourne A.B., Stanford, 1925	San Francisco	Hist. 18·163+23	250 Branner-*1222*
[234]Allen, Ernest William	Berkeley	Educ. 6·123+81	246 Toyon
[4]Allen, Helena Holden A.B., Nebraska, 1925	Berkeley	Sch. Ed. gr.	Roble
[23]Allen, Hollis Partridge A.B., Pomona, 1918; A.M., Stanford, 1925	Pasadena	Educ. gr.	1236 P.A., M-*990*
Allen, Jack Garner	San Bernardino	LD 91+143	Delta Chi-*1304*
Allen, James Hamilton	San Francisco	LD 44+13	*227* Encina-*1021*
Allen, Lloyd Jeffreys A.B., Stanford, 1925	Palo Alto	Econ. 180+67	1023 Middlefield-p
[5]Allen, Marjorie Sarah	Los Angeles	Engl. 139+146	571 Hamilton-*1386*
[5]Allison, Horace Burgess	Santa Ana	Econ. 175+35	Theta Del. Chi-*1828*
[5]Allred, W. Lyle A.B., Brigham Young, 1909; A.M., Stanford, 1925	Logan, Utah	Phys. gr.	University Park-*1452*
[4]Almquist, Lillian A.B., Fresno State Teachers College, 1925	Fresno	Educ. gr.	Roble
[4]Almquist, Lydia Katherine A.B., Fresno State Teachers College, 1925	Fresno	Educ. gr.	Roble
[12]Altaffer, John L.	Lakewood, Ohio	LD 7–13	305 Encina
Ambler, Alfred Carleton	Mayfield	Med. gr.	725 Stanford, M-*1117*

Ambrose, Norman William A.B., Stanford, 1925	Santa Barbara	Econ. 183+76	231 Union-*1041*
Ames, Elbert Nicholas	San Mateo	LD 32–16	308 Encina
Ames, Helen Jordan	Los Altos	Engl. 128+70	Kappa Alpha Theta
[12]Anawalt, Howard	Montrose	LD 50–25	Phi Delta Theta-*1334*
[23]Anderson, Albert Loutrel	San Francisco	LD 20–13	115 Encina
Anderson, Carl William	San Mateo	Law 143+17	Theta Chi-*1383*
[234]Anderson, C. Travis	Garden Grove	Chem. 124·34+12	525 Channing-p
Anderson, Edward Gerald	Santa Cruz	LD 34–16	248 Encina
Anderson, Edward Wharton	Long Beach	LD 72+1	Delta Kappa Epsilon
[4]Anderson, Elmer Warner	San Mateo	LD sp. 507	Bayview Blvd., SM-sm
[3]Anderson, Frank M. A.B., Stanford, 1895	Berkeley	Geol. gr.	58 Hillcrest Rd., B-b
[4]Anderson, George Kearney	San Bernardino	Educ. ‡	Toyon
[5]Anderson, Henry Stow	Mayfield	Econ. gr.	460 Yale, M-m
[5]Anderson, Joanna Maria	Pasadena	Engl. 164+131	Alpha Phi-*1387*
Anderson, Marjorie Belle	Burbank	Sch. Ed.gr.	Alpha Omicron Pi-*1367*
Anderson, Ralph Eugene A.B., Stanford, 1925	Kingsburg	Econ. 185+97	122 Toyon-*618*
Anderson, Richard Kvelve	Hollywood	Pre-Med.89·45+1	230 Bran'r-*1241*
[5]Andrews, Chester Richard	Fresno	Law 108+61	Sigma Nu-*1385*
[4]Andrews, Dorothy Adele	Sacramento	LD ‡	259 Roble
Andrews, Harry Howard, Jr.	Los Angeles	LD 41–15	223 Encina-*1263*
[5]Andrews, Lewis Willett	Los Angeles	LD 90+4	Beta Theta Pi-*1335*
[4]Andrews, Roy M. A.B., Southwestern, 1920	Mexia, Texas	Educ. gr.	667 Channing-p
de Angelis, S. Augustine Ph.B., Wesleyan, 1902	Palo Alto	Educ. gr.	334 Lincoln-p
Angier, Harold Hale	Lodi	Econ. 87·46–2	Theta Xi
Anglim, James Harold A.B., Stanford, 1923, J.D., 1925	Represa	Law gr.	520 Encina-*1921*
Ankele, Carl Louis	San Francisco	LD 67+15	Chi Psi-*N*
[234]Annand, Percy Nicol B.S., Colorado Agricultural, 1920; A.M., Stanford, 1922	Burlingame	Ent. gr.	774 Laurel, B-b
[234]Anschutz, Ralph Irving	Oakland	Econ. 114+105	Delta Chi-*1304*
[13]Antonell, Emil Brackett	Ray, Ariz.	LD 11·42+13	305 Encina-*991*
[12]Applegate, Katherine M.	Portland, Ore.	LD 46·45+36	353 Roble
[4]Apollonio, Norman Lothrop B.S., Massachusetts Institute of Technology, 1922	San Francisco	Sch. Ed. gr.	205 Emerson-p
Apponyi, Carl Edward	Los Angeles	LD 89+48	Alpha Sigma Phi-*1357*
Aram, Alfred A.B., Arizona, 1924; J.D., Stanford, 1925	Berkeley	Law gr.	Bowdoin, Col. Ter.-*1636*
Arata, Stephen	Stockton	LD 43+4	329 Encina-*1543*
[5]Argabrite, Marion Edith	Ventura	LD 8·61+29	Chi Omega-*1386*
[12]Argue, Richard Lawrence A.B., Stanford, 1925	Long Beach	Law 92·96+13	Sigma Nu-*1385*
Arkush, Albert Samuel A.B., Stanford, 1925	Palo Alto	Med. gr.	329 Hawthorne-p
[1]Armbruster, Earl	Los Angeles	Min. 79·86–5	215 Toyon
Armfield, J. Shirley	Woodland	LD 47+71	351 Encina
Armour, Merrill	Long Beach	Law 141+71	Alpha Tau Omega-*1384*
Armstrong, Ellis Brotton	Fortuna	LD 45+55	406 Encina-*1149*
Armstrong, Frank Howard	Palo Alto	LD 42+24	105 Encina
[5]Armstrong, Harold Stevens	Tulsa, Okla.	Min. 40·101+69	218 Toyon-*1034*

[1]Arnold, Harry Lundgren Redwood City
[5]Arnoldson, Astrid H. Missoula, Mont.
[23]Arnott, Peter Roy Palo Alto
Arnstein, Eugene San Francisco
Arthur, James Leland Clovis
Aseltine, John San Diego
A.B., Stanford, 1924, A.M., 1925
[4]Ashburn, Andrew Wilson Ft.Worth,Tex.
A.M., Virginia, 1919
[3]Ashby, Waldo
[12]Ashley, L. Hamlin Alameda
[12]Ashley, Palmer Calvin Alameda
*[12]Atherton, Donald Hope Oakland
B.S., Rose Polytechnic, 1905, E.E., 1916
Atkinson, Ray Cook Pine Bluff, Ark.
Attwood, Cyril John Palo Alto
Attwood, Philip Baxter Palo Alto
[12]Atwater, Clement Finley Hollywood
A.B., Stanford, 1925
[5]Atwill, Edward Robert San Gabriel
[4]Auch, August Lodi
A.B., San Jose State Teachers College, 1924
Austin, Frederick Lautz Santa Monica
[4]Austin, Katherine Thornton Fresno
Avery, William Elroy Long Beach
Avilla, Leonard Ray Hughson
A.B., Stanford, 1925
[12]Aydelott, James Lee Hanford
[4]Ayer, J. Warren Los Gatos
A.B., Otterbein, 1907; A.M., Stanford, 1923
Ayres, Mary Louise Durango,Colo.
[134]Babcock, Clyde H. Colo. Springs, Colo.
Babcock, Lawrence T. Billings, Mont.
[12]Bachmann,Frederick W. Stanford Univ.
A.B., Stanford, 1922, A.M., 1925
[1]Bacigalupi, Rimo San Francisco
A.B., Stanford, 1923, A.M., 1925
de Back, Grace San Francisco
[3]de Back, Norman San Francisco
A.B., Stanford, 1925
Bacon, Harold M. Los Angeles
[23]Baddley, Elmer Rossiter Palo Alto
A.B., Utah, 1922; A.M., Stanford, 1924
Baer, Theodore F. Salt Lake City, Utah
[12]Bagley, Francis Edgar Berkeley
Bailard, Robert Edwards Carpenteria
[3]Bailey, Babette Frances Sacramento
[5]Bailey, Thomas Andrew San Jose
A.B., Stanford, 1924, A.M., 1925
Bailey, Wilbur Porter San Jose
[13]Bailie, Margaret Los Angeles
A.B., Stanford, 1925
[5]Bain, Li Hwei Kiangsi, China
[4]Baisden, Leo B. Longview, Wn.
A.B., Washington, 1916

LD 45–17 137 Stratford, RC-rc
LD 20·64+39 *242 Roble-738*
Chem. 40·14–2 424 Seneca-p
LD 95+71 *20 Branner-1871*
Min. 103+9 *245 Toyon-1571*
Educ. gr. 718 P.A.Ave.,Mayfield

Engl. gr. 524 Hamilton

LD
LD 96+19 Theta Xi-*1355*
LD 14–23 248 Encina
M.E. gr. 200 Glenwood, O-o

LD 105+59 Pacific Grove-pg
LD 93+94 *532 University-p*
LD 91·75+6 *532 University-p*
Econ. 181+54 Al.TauOmega-*1384*

Geol. 180+141 Delta Upsilon-*1353*
Sch. Ed. gr. 212 Homer-p

LD 45+38 348 Encina
Zool. ‡ *202 Roble*
LD 78+88 Phi Delta Theta-*1334*
Law 181+62 89 Sequoia

LD 63–6 Sigma Nu-*1385*
Educ. gr. 1152 Johnson, LG-lg

LD 46+54 *237 Roble-1904*
Law 49·78–13 *226 Union-2018*
LD 93+49 Beta Theta Pi-*1335*
Fr. gr. 539 Encina-*146*

Bot. gr. 303 Union-*X*

Phil. 113·53+18 Pi Beta Phi-*1332*
Econ. 181+6 DeltaTauDelta-*1363*

LD 46+85 *221 Encina-1144*
Geol. gr. 315 Alma-p

LD 90+54 *239 Branner-1721*
LD 69·23+18 BaseHosp.,Bx583,mp
LD 94+7 112 Toyon-*I*
LD 15+8 *282 Roble*
Hist. gr. 103 N. Bascome, SJ-sj

Chem. 3·157+219 *224 Toyon-1212*
Engl. 63·138+9 Alpha Phi

Educ. 90·81–7 212 Union-*14*
Educ. gr. 524 Middlefield-p

Baker, Eunice K. Watertown, N. Y. Engl.67·68+103 CastillejaSch.-*1142*
Baker, George Cook Palo Alto LD 5·113–7 AlphaSigmaPhi-*1357*
[1]Baker, George Harold Santa Ana Econ. 6·175+38 219 Encina-*1353*
A.B., Stanford, 1925
[1]Baker, Gertrude Baker, Ore. LD 50+41 Kingscote
Baker, Marion Long Venice Math. 135·46+62 254 Roble-*36*
A.B., Stanford, 1925
Baker, Mary Baker, Ore. Econ.-Jn. 182+159 Kingscote-*1427*
A.B., Stanford, 1925
[4]Baker, Milo S. Kenwood Bot. gr. 321 Cowper
B.S., California, 1895
Baker, Ray Frank Osage, Iowa LD 44+66 244 Encina-*1611*
Baker, William Archie San Mateo LD 36+0 416 Encina
[12]Baker, William Ray Los Angeles LD 60+33 Delta Upsilon-*1353*
Bakewell, Elizabeth Vail Santa Barbara LD 48+60 368 Roble-*1097*
[4]Bakhuyzen, Henriette F. Menlo Heights S. Biol. gr. Menlo Heights-*1462*
University of Utrecht
[5]Balcom, Bayles Ross-Lewin Los Angeles Econ. 53·67+37 249 Toyon
Balcomb, Violet May Palo Alto Hist. 180+289 150 Roble
A.B., Stanford, 1925
Baldwin, Mary Catherine Riverside LD 45·55+61 150 Roble-*1230*
[13]Baldwin, Paul Myron Bakersfield LD 56–17 139 Toyon-*1290*
[4]Baldwin, Robert Irving Stockton Educ. 58·16+15 21 Reed, SJ-sj
[34]Ball, Harvey Bryant Palo Alto LD 9–3 707 Middlefield-p
[4]Ball, Mary Adelaide Sacramento Sch. Educ. gr. 11 Salvatierra
A.B., Denver, 1912
[4]Ballard, Modrel Moffett Abilene, Texas Span. gr. Mayfield-m
A.B., Baylor, 1920
Ballin, Edwin Charles Los Gatos LD 34–26 125 Encina
Ballou, Fremont Osbert Los Angeles Bot. gr. 535 Encina
A.B., Stanford, 1924
Balsley, John William Galesburg, Ill. Econ. 90·44+10 206 Union-*1182*
Baltimore, Louis Hollywood Med. gr. *2263* Sacramento, SF-sf
A.B., Stanford, 1922
[4]Balyeat, Frank Allen Mayfield Educ. gr. 170 Stanford, M-m
A.B., Oklahoma, 1911, A.M., 1918
Bancroft, Anne Josephine Walnut Creek LD 49+6 320 Roble
Banta, A. Perry New York, N. Y. C.E. 150+57 228 Branner-*1220*
Baptie, Charles C. Bakersfield M.E. 196+91 Sigma Nu-*1385*
A.B., Stanford, 1925
Barbee, Bill Pratt, Kansas LD 93+37 AlphaSigmaPhi-*1357*
[5]Barber, Elsa Jean Livermore Engl. gr. Gamma Phi Beta-*1337*
A.B., Stanford, 1925
[4]Barker,Edmund Farnsworth Los Angeles Econ. ‡ 219 Toyon
[5]Barker, Lucile Palo Alto Sch. Ed. gr. 208 Escobita-p
A.B., Alberta, 1923
[4]Barker, Roger Garlock Palo Alto LD ‡ 208 Escobita-p
[12]Barkley, Henry A. Brentwood LD sp. 0–13 1828 Bryant-p
Barley, Charles Victor Long Beach Med.gr. S.Francisco Hosp.,SF-sf
A.B., Stanford, 1924
[4]Barmore, Merrill Gorr Whittier Pre-Med. gr. 305 Union
A.B., Whittier, 1925
Barnard, Leonard Bryan Niles Med. gr. 2286 Jackson, SF-sf
A.B., Stanford, 1922
[4]Barneberg, Grace Elizabeth S.LuisObispo Ed. G. A. gr. Roble
A.B., Stanford, 1901

[3]Barnes, Glen C.	Los Angeles	Econ. 116–7	Kappa Sigma-*1326*
[124]Barnes, Thomas Reed	Fellows	Min. 90·77+38	237 Toyon-*1833*
[28]Barnett, Blanch Ellen	Phoenix, Ariz.	LD 30+43	315 Roble-*694*
Barnett, Ellsworth Lansing	Santa Rosa	LD 121+86	Al.Kap.Lambda-*658*
Barnett, Homer Garner	Bisbee, Ariz.	LD 97+40	126 Branner-*1785*
[4]Barnett, Thomas Clifford	San Jose	LD	112 Toyon
[12]Barrett, Dallas L. A.B., Stanford, 1923	Long Beach	Law gr.	537 Encina-*2021*
Barrett, Fenton Avery	Long Beach	LD 46+25	127 Encina
[5]Bartell, Lawrence Denny	Long Beach	Geol. 135·38–5	Kap.Sigma-*1326*
Bartlett, Emily M. A.B., Maine, 1912, A.M., 1917	Orono, Maine	Bot. gr.	555 Lytton-p
[4]Bartlett, Isabel Georgina A.B., Sacred Heart, 1918	Menlo Park	Educ. gr.	Menlo Park-mp
[4]Bartlett, Mabel Essie A.B., Park, 1913	Palo Alto	Sch. Ed. gr.	524 Woodland-p
Barton, Bernard	San Bernardino	Chem. 90·54+53	36 Sequoia
Bascom, Francis S. A.B., Yale, 1924	Salt Lake City, U.	Pre-Med. gr.	11 Salvatierra-*1062*
Bassett, William Albert, Jr.	Los Angeles	LD 47+13	*223* Encina-*1213*
Bassler, Hiram A.B., Stanford, 1925	Chico	C.E. 90·100+70	Com'nity House-p
Baum, Robert Frederick	San Francisco	LD 40–3	346 Encina-*1023*
Baumann, Edward Osgood	Saratoga	LD 42+44	*222* Encina-*523*
Baumann, James Osgood	Saratoga	LD 44+67	*222* Encina-*523*
Baumeister, Carl Jack	San Francisco	LD 43+8	*22* Encina
[4]Baumgarten, John A.M., Chicago, 1922	Brinkley, Ark.	Educ. gr.	318 Emerson-p
[5]Baxter, Cleland F.	Upland	LD 67–10	Beta Theta Pi-*1335*
[5]Baxter, Philip Norman A.B., Stanford, 1925	Stockton	Zool. gr.	159 Churchill-p
Bayer, Leona Mayer A.B., Stanford, 1923	San Francisco	Med. gr.	2960 Scott, SF-sf
[4]Beach, Gladys Martha B.S., Idaho, 1922	Burley, Idaho	Sch. Ed. gr.	Kingscote
[1]Beach, W. Edwards A.B., Stanford, 1922	Palo Alto	Econ. gr.	540 University-p
Bean, Charles Myron	San Jose	Econ. 90·43+22	469 S. 3rd, SJ-sj
Bean, Theron Walthall	Portland, Ore.	E.E. 97·50+37	1004 Emerson-p
Beard, John Winter	Fort MacArthur	LD 40–1	336 Encina
Beard, William Gordon	Fort MacArthur	LD 45+5	336 Encina
Beardslee, Robert Lewis	Stockton	LD 91+122	215 Branner-*1018*
Beardsley, Charles Edward A.B., Stanford, 1925	Los Angeles	Law gr.	320 Encina-*1096*
Beattie, Augustus Canfield A.B., Stanford, 1922	Portland, Ore.	Med. gr.	2286 Jackson, SF-sf
[4]Beattie, William Gilbert A.B., Oregon, 1901	Monmouth, Ore.	Educ. gr.	341 Emerson-p
[1]Beaver, Peter Pierce	San Francisco	LD 90+0	Phi Kappa Sigma-*1306*
Beck, Aileen Marie	Petaluma	LD 22·69+37	Kap.Al.Theta-*1336*
[1]Becker, Fred Monroe	Palo Alto	LD 15+9	616 Cowper-p
Becker, John Greenough A.B., Stanford, 1925	Long Beach	M.E. 52·142+50	214 Union-*I*
[4]Beckman, Frank F.	Santa Rosa	LD sp.	Union
[3]Beckner, Albert C.	Palo Alto	LD 50·14+2	880 Forest-p

Beckwith, Burnham Putnam	Pasadena	Law 144+51	103 Branner
Beckwith, Sterling	Pasadena	LD 98+54	250 Toyon-Box 278, p
Beede, Arthur Huntington B.S., Occidental, 1920	San Francisco	Med. gr.	2263 Sacramento, SF-sf
Beedy, Mary Elizabeth	San Francisco	LD 81+34	Kap.AlphaTheta-*1336*
Beeman, J. Horton B.S., Oregon, 1922; J.D., Stanford, 1925	Portland, Ore.	Law gr.	SigmaAlphaEps.-*1305*
Beer, Kenneth V.	Salt Lake City, Utah	Math. 47·87+19	251 Toyon-*907*
Beeson, Harold G. A.B., Stanford, 1925	Anchorage, Alaska	Pre-Clin.90·126+57	Kap.Al.-*2057*
Behle, Calvin A.	Salt Lake City, Utah	LD 47+41	330 Encina-*1952*
Behlow, Charles John	San Francisco	LD 83–3	59 Sequoia-*1067*
[1]Belcher, Stanley Smith	Marysville	Law 126–2	Kappa Sigma-*1326*
[4]Bell, Alice Kinsley A.B., Ottawa, 1909	Wichita, Kan.	Educ. gr.	Roble-*228*
Bell, F. Fancher A.B., Stanford, 1925	Pecos, Texas	Econ. 182+41	141 Toyon-*I*
Bell, Luther Shepard A.B., Stanford, 1925	Pecos, Texas	Econ. 184+172	Encina Gym.-*I*
[234]Bell, Mary Esther	Pasadena	Engl. 135·28+29	243 Roble
[234]Benedict, Charles Keep	Palo Alto	LD 84–2	1230 Emerson-p
[4]Benedict,Howard Courtney,Jr. A.B., Stanford, 1923, A.M., 1924	Palo Alto	Chem. gr.	1230 Emerson-p
Benepe, Wesley Uhl	Sebastopol	Econ. 134+41	138 Branner-*1101*
Bennett, Harry M., Jr.	Glendale	LD 81+8	Delta Chi-*1304*
[3]Bennett, Merrill Kelley A.M., Brown, 1921	Killingly, Ct.	Econ. gr.	140 Churchill-p
[4]Bennett, Richcard	Tucson, Ariz.	C. E. ‡	329 Hawthorne-p
Bennetts, Frederick A. A.B., Stanford, 1925	Mountain View	Pre-Clin. 135·63+47	Mt. View-mv
[4]Benson, Albert Niles	Decoto	Educ. ‡ 36+32	Menlo Park-mp
Benson, Cecil Raney A.B., Stanford, 1925	Santa Clara	M.E. 188+156	1515Franklin,SC-sc
[1]Benson, Gilbert Thereon A.B., Stanford, 1923, A.M., 1925	Oswego, Ore.	Bot. gr.	Kingscote-*593*
[4]Benson, Robert Rowe B.S., Arizona, 1918	Riverside	Sch. Ed. gr.	131 Toyon
[12]Bentley, C. Eugenia A.B., Stanford, 1925	Los Altos	Hist. 182+81	Delta Gamma-*1366*
Bentley, Elizabeth Noel	Los Altos	Fr. 26·124+125	Delta Gamma-*1366*
[4]Bentley, Lucie Freeman	Los Altos	LD ‡	Los Altos-la
[23]Benton, D. Newell	Eureka	LD 4·31+27	120 Encina-*545*
[1]Bentzien, Forrest Llewellyn	Santa Clara	LD 15–3	1651 Lexington, SC-sc
[1]Berger, Clarence E.	Los Angeles	M.E. ‡ 12+3	628 Middlefield-p
Berger, Philip Raymond	Oakland	Pol.S-Jn130+152	307Branner-*1090*
[4]Bergman, Carl Joseph A.B., Augustana, 1910	Big Pine	Educ. gr.	604 Gilman-p
Bering, Barry F.	San Francisco	M.E. 145+106	207 Branner
Bering, Donald Arthur	San Francisco	LD 102+79	217 Toyon
[1]Bering, Lee Wallace	Los Angeles	LD 11–4	225 Encina
Berk, Henry H. A.B., Stanford, 1925	Alstown, Wn.	M.E. gr.	123 Toyon-*948*
[12]Berkalew, George W. A.B., Stanford, 1925	Binghamton, N.Y.	Phil. 85·95+82	312 Toyon-*1078*
[4]Bernreuter, Robert Gibbon A.B., College of the Pacific, 1924	Chico	Educ. gr.	214 Union

Bernstein, Morris — Palo Alto — LD 7·81+90 — 786 P.A. Ave.-p
[4]Berrien, William Josef — Beverly Hills — LD sp. 16+28 — 421 Cowper-p
[12]Berry, Willard Elwin — Palo Alto — LD 122+33 — 373 Channing-p
Bertrand, DeWitt Clinton — Aberdeen, Wn. — E.E. gr. — 319 Union-*1503*
A.B., Stanford, 1923, Engineer, 1925
Best, William E. A. — San Mateo — LD 66–4 — Theta Xi-*1355*
Bever, Clarence Lloyd — Filer, Idaho — LD 91–10 — 1335 Cowper-*1441*
[4]Beveridge, Ada Russell — Fresno — Engl. gr. — 317 Roble
A.B., Mills, 1921
Biaggini, Albert — San Jose — LD 48+46 — 336 N. 3rd, SJ-sj
[4]Bianchi, Marie Lucy — Mountain View — Span.gr. — 852Washington,MV-mv
A.B., Stanford, 1923, A.M., 1924
Biby, Marjorie Doris — Los Angeles — Ed. G.A. 101·42+19 — 380 Roble
Bickerton, Haughton C. — Menlo Park — LD 69+0 — Menlo Park-mp
Biddison, James Philip — Goodland, Kan. — Law 180+73 — 532 Encina-*1456*
A.B., Stanford, 1925
Bidwell, Lillian Follis — Glendora — Engl. 185+245 — 304 Roble
A.B., Stanford, 1925
[5]Bielefeldt, Talbot — Placentia — Pol.S. 163+161 — 313 Union-*2059*
Bigelow, Herbert S. — O'Neals — Econ. 187+245 — MountainView-mv
A.B., Stanford, 1925
[12]Bigelow, James Kelley — San Francisco — LD 23–22 — 328 Encina-*1741*
[23]Bigelow, Schuyler, Jr. — Santa Ana — Econ. 90·78+10 — 133 Toyon
[23]Bigelow, Windsor Drury — San Francisco — LD 25–22 — 328 Encina-*1741*
[1]Biggar, Virginia Keith — Los Angeles — Econ. 47·133+9 — K.Kap.Gam.-*1354*
A.B., Stanford, 1925
[4]Bigler, Alexander Bowman — Santa Maria — Chem. ‡ — 117 Toyon
[4]Billingsley, Gordon David — Portland, Ore. — Chem. ‡ — 239 Toyon
[4]Binkley, Elizabeth — Cobb — Educ. 44·27+13 — Menlo Heights
[12]Binkley, Robert Cedric — Menlo Heights — Hist. gr. — University Park-*1245*
A.B., Stanford, 1922, A.M., 1924
[23]Binkley, Thaddeus C. — Cobb — LD 127+94 — 9 Sequoia-*1245*
Birnie, David — Arnhem, Holland — Engl.90·105+79 — 27Salvatierra-*1463*
A.B., Stanford, 1925
Birosel, Dionisio Martinez — Palo Alto — Chem. gr. — 625 Hamilton-p
A.B., College of the Pacific, 1922; M.S., Southern California, 1923; Engineer, Stanford, 1925
[4]Bishop, Bertha — Twin Falls, Idaho — LD ‡ — 171 Roble-*818*
[23]Bishop, James H., Jr. — San Francisco — LD 11–11 — 118 Encina
[5]Bissinger, Paul A. — San Francisco — Hist. 135+69 — 224 Toyon-*1030*
Bivans, Kenneth R. — La Grange, Ill. — LD ‡ 83–12 — 239 Branner
de Bivort de la Saudée, Hervey — Stan. U. — LD 46+33 — Kingscote-*1574*
[4]Bjorlie, Clarence Freeman — San Jose — M.E. ‡ 45+0 — 1666 Katherine, SJ-sj
[3]Black, Elizabeth Harris — Pasadena — Sch. Ed. gr. — Madroño
A.B., Mills, 1924
Black, Winston C. — Salt Lake City, U. — LD 38·76+12 — ThetaDeltaChi-*1828*
[1]Blackburn, John Haile, Jr. — Burlingame — LD 6–14 — 117 Encina
[12]Blacker, Carroll Lynne — Menlo Park — C.E. 39·168+41 — MenloPk.-Bx745,p
A.B., Stanford, 1925
Blackford, James McNeal — Libby, Mont. — LD 93+58 — 104 Branner
Blackford, John Lindesay — Libby, Mont. — LD 90+101 — 104 Branner
Blackman, Chester Wiggin — Los Angeles — LD 93+130 — 256 Toyon-*1403*
[5]Blackwelder, Margery — Stanford Univ. — LD 38–7 — Encina Road-*NN*
[12]Blain, Howard Wortham — Ottawa, Kan. — Bact. gr. — 2371 29th Ave., SF-sf
A.B., Columbia, 1923

Blair, Waddington	San Francisco	LD 46+22	141 Encina-*1000*
[4]Blanchard, Everett Ellis A.B., Stanford, 1919	Palo Alto	Sch. Ed. gr.	325 Alma-p
Blazier, Harold Emery	Portland, Ore.	LD 91+48	Phi Gam.Delta-*1324*
Bledsoe, Leighton McLellon	Bisbee, Ariz.	Law 19·137+119	Sig.Al.Eps.-*1305*
Bley, Bertrand Adolph A.B., Stanford, 1924, J.D., 1925	San Francisco	Law gr.	318 Union-*1060*
[4]Blomquist, Frances Mary A.B., California, 1924	San Jose	Sch. Ed. gr.	Roble
[1]Blosser, Fred Claire A.B., Stanford, 1925	Fresno	Econ. 53·128+8	321 Union
Bly, Albert M.	Los Angeles	LD 47+10	200 Encina
[4]Blythe, William Lucian	Palo Alto	LD	381 Channing-p
Boardman, Albert Drown	San Francisco	LD 89–4	Sig.AlphaEps.-*1305*
Bobb, Arthur Earl	San Jose	Phys. 132·41+15	395 S. 13th, SJ-sj
[4]Bodley, Ellison Wilhelmina A.B., Stanford, 1913	Palo Alto	Germ. gr.	353 Lytton-p
Boeseke, Felecita Elisa	Santa Barbara	Econ. 134+68	Del.DeltaDel.-*1325*
[12]Boggs, Tom Withers	Stockton	LD 15–6	116 Encina
Bogue, George Richardson	Burlingame	LD 90+27	450 Encina-*I*
[24]Bohne, Emmitt Jullion	Mt. Pleasant, U.	Hist. 92·15+6	641 Gilman-p
[1]Boles, Harold Everett	Los Angeles	Econ. 103+58	Delta Upsilon-*1353*
[34]Bolin, Cornelius Earl	Los Angeles	Econ. 93·69+62	436 Lytton-p
[12]Boller, Kenneth L.	Wichita Falls, Tex.	Geol. ‡ 18–23	525 Channing-p
[12]Bollinger, Eldred Floyd A.B., Stanford, 1925	Cupertino	Chem. 180+67	Cupertino-c
Bolman, Marion DeWolfe	Palo Alto	Hist.24·118+104	G.PhiBeta-1337
Bolman, Robert Hill	Palo Alto	LD 84+16	541 Seale-p
[4]Bolton, L. Marie A.B., Fresno State Teachers College, 1925	Fresno	Sch. Ed. gr.	229 Roble
Bolton, Robert Elmer	Casper, Wyo.	LD 93+38	139 Toyon-*605*
Bonar, Perry Arthur A.B., Stanford, 1925	Santa Rosa	Med. gr.	Kappa Alpha-*2057*
Bonner, Doris Rozella	Fresno	LD 6·58+32	355 Roble-*666*
Boodberg, Alexander	Menlo Park	LD 45+21	1 Roble, MP-mp
Boodberg, Paul	Menlo Park	LD 81·62+35	1 Roble, Mp-mp
[3]Boone, Andrew Richmond A.B., Stanford, 1924	Palo Alto	Law gr.	436 Waverley-*10*
[1]Boone, John Marshall	Baltimore, Md.	LD 44–22	129 Emerson-p
Borchers, Walter Claus A.B., Stanford, 1925	San Jose	Econ. 180+59	55 E. Empire, SJ-sj
Borden, Frederic Wallace A.B., Stanford, 1925	Palo Alto	Chem.-Med. 111·97+135	788 PA-p
Borden, Lemuel Parry	Palo Alto	LD 45–3	724 Bryant-p
Boren, Raitt Stanford	Oakland	Law 122–14	131 Toyon-*1701*
[4]Borges, Mary Julia	Oakland	LD sp.	Roble
Borley, Roswell Donald A.B., Stanford, 1925	Mishawaka, Ind.	Pre-Clin. 135·49+19	Cowper Ct.-p
Borley, William Edgar	Mishawaka, Ind.	LD 45·44+15	436 Waverley-p
Borton, Mary Elizabeth A.B., Stanford, 1925	Bakersfield	Hist. 90·95+174	300 Roble-*84*
Borwick, David H.	Denver, Colo.	Law 93·64–21	Menlo Park-*1215*
Boscoe, Anthony R.	Stockton	LD 27–8	424 Encina
Bosonetto, Laura G. C.	Clinton, Ind.	LD 48+70	261 Roble-*1814*

[23]Botsford, P. Paul	Edina, Mo.	Hist. 94-58+14 344 Emerson-p
[23]Bourquin, Fred Raymond	Santa Barbara	LD 61–9 Theta Chi-*1383*
[4]Bourret, Mary-Louise	San Mateo	LD ‡ 213 Villa Terrace, SM-sm
[3]Bousfield, John Dunwoody	Aberdeen, Wn.	LD 9–39 659 Middlefield
[1]Boutcher, Paul	Pendleton	LD 15–3 353 Encina
[4]Bovet, Antoine Francis	San Mateo	LD 3rd Ave., SM-sm
[4]Bovet, Louis Antoine	San Mateo	LD 3rd Ave., SM-sm
[4]Bovet, Raymond Claude	San Mateo	LD 3rd Ave., SM-sm
Bowen, Dorothy	Los Angeles	LD 68+65 340 Roble-*1465*
Bowen, Ruth Grant	Atherton	LD 37–9 358 Roble
Bower, Beulah Dorothy	Menlo Park	LD 84+11 Sigma Kappa-*1327*
[1]Bowers, Nathan Abbott	Burlingame	C.E. gr. 809 Fairfield, B-b
B.S., Rose Polytechnic, 1910, C.E., 1921		
[1]Bowman, Arthur Wellington	Berkeley	LD 42–13 Theta Delta Chi-*T*
[4]Bowman, J. Carl	Lakeview, Ore.	Sch. Ed. gr. 201 Toyon
B.S., Oregon, 1921, A.M., 1922		
[4]Bowman, Leonard Leon	Santa Barbara	Educ. gr. 209 Union
B.S., Kankas State Normal School, 1921		
[4]Boyce, Josephine Lenore	Monterey	LD 8+3 Monterey-m
[4]Boyd, Frederick Arthur	San Francisco	LD 140 Toyon
[5]Boyes, Joseph Harold	San Jose	Pre-Med. 90-47+54-90 Sngl'ry, SJ-sj
Boynton, Katharine	San Francisco	LD 52-60+78 158 Roble-*1671*
Boynton, Robert Davis	San Francisco	E.E. 11-174+136 PhiGam.Del.-*1324*
Bradley, George Ethelbert	Santa Ana	LD 46+30 139 Encina-*1015*
Bradley, John Allen	Santa Ana	LD 135+37 AlphaSigmaPhi-*1357*
[5]Bradshaw, William Lawrence	Palo Alto	Law gr. 527 Channing-*1024*
A.B., Stanford, 1924		
[1]Brady, Earl Clyde	Helena, Mont.	Econ. 45-55+68 Sigma Chi
[4]Braem, Selma	Alma, Wis.	LD ‡ Roble
Bragg, Arthur Dickinson	Carmel	M.E. 188+144 Sigma Nu-*1385*
A.B., Stanford, 1925		
[4]Bragg, Elizabeth Allison	Springfield, Mo.	Educ. gr. 515 University-p
B.S., Missouri State Teachers College, 1922		
Brailsford, Beatrice L.	Hagerman, Ida.	Hist. 9-172+39 108 Roble-*1216*
A.B., Stanford, 1925		
[12]Bramblett, Ernest King	Menlo Park	Econ. 56-124+100 Menlo Park-mp
A.B., Stanford, 1925		
Bramhall, Ervin Hicks	Palo Alto	LD 129+32 131 Kellogg-p
Bramkamp, Lynn Alden	San Jose	LD 45+49 281 S. 11th, SJ-sj
[4]Bramkamp, Robert Greenleaf	Banning	Chem. ‡ 313 Toyon
[12]Brandon, Edward L.	Palo Alto	LD 95+60 1122 Channing-p
Brandt, Fred L.	Stockton	M.E. 90-46+14 66 Sequoia-*977*
Brandt, Louis James	Bakersfield	LD ‡ 55–6 308 Encina-*1151*
[4]Branigan, John	Gilbert, Ariz.	Educ. gr. 454 Hamilton-p
B.S., Nebraska, 1915		
[5]Brannock, William A., Jr.	Kansas City, Mo.	Econ. 105-59+24 548 Webster-*831*
Bransten, Edward	San Francisco	LD 47+20 335 Encina
[1]Bransten, William H.	San Francisco	Hist. 108+115 211 Branner
[18]Braunschweiger, Elyse E.	Palo Alto	LD 33–9 210 Middlefield-p
Brazil, Anthony	San Luis Obispo	Law gr. 8 Cabrillo-*1644*
A.B., Stanford, 1924		
Breeden, Bernard Alan	San Francisco	LD 37–1 42 Encina-*1022*
Breeze, Thomas Hamilton, Jr.	San Mateo	LD 48–10 AlphaTauOmega-*1384*
Brem, Lorna	Los Angeles	LD 49+31 321 Roble

[4]Brenner, Florence Marshall — Palo Alto — Engl. gr. — 1044 Hamilton-p
B.L., California, 1911
Brenner, James Emmet — Palo Alto — Law gr. — 1044 Hamilton-p
U. S. Naval Academy
[4]Brewer, Florence Dudley — Olympia, Wn. — Cl. Lit. gr. — 215 Roble-*899*
A.B., Washington, 1906
Brewster, Hughes — Dixon, Ill. — LD 49+29 — *332* Encina-*1733*
[34]Bridgman, Lloyd Alton — Witten, S.D. — LD sp. 58+74 — 21 Toyon
[12]Briesen, Hans — San Francisco — Med. gr. — 2011 Webster, SF-sf
A.B., Stanford, 1924
Briggs, Ackerman — Los Angeles — LD 79+14 — Beta Theta Pi-*1335*
[5]Briggs, Charles Willers — Los Angeles — Min. 139+72 — Sigma Nu-*1385*
[1]Briggs, Elizabeth Jane — Portland, Ore. — Educ. gr. — Madroño-*841*
A.B., Willamette, 1919; A.M., Stanford, 1925
[4]Briggs, Mitchell P. — Fresno — Sch. Ed. gr. — 451 University-p
A.M., Wisconsin, 1917
[2]Brightman, Latham Head — Los Angeles — LD — 348 Encina
Brinkerhoff, David Emillius — Los Angeles — Med. gr. — 542 Cowper-p
A.B., Southern California, 1923
Britten, Clyde Harold — Exeter — LD 90+59 — 113 Branner-*1855*
[4]Brix, Ted Frederic — Fresno — LD — *202* Toyon
[4]Broadbent, Vernon Edgar — Santa Clara — Sch. Ed. gr. — 717 Bryant-p
A.B., State College of Washington, 1925
[2]Broadwood, John Robert — Palo Alto — LD 5–6 — 352 Churchill-p
Brockway, Maywood L. — Billings, Mont. — Law 131+40 — 1085 University-p
Broenkow, Herman Walter — Tacoma, Wn. — Law 180+97 — Phi Gam. Delta-*1324*
A.B., Stanford, 1925
[5]Brolyer, Cecil Robert — Stanford Univ. — Psych. gr. — 319 Union-*866*
A.B., Stanford, 1923
[4]Bronson, Bertram Bethuel — Alameda — Educ. gr. — 1004 Emerson-p
A.B., Nazarene, 1915; A.M., California, 1921
Bronson, Lewis Elmer — Red Bluff — LD 45+12 — 316 Encina-1534
Brooker, Edgar — Kodiak, Alaska — LD 112+85 — 365 Guinda-p
Brooks, Baylor — Los Angeles — LD 45+13 — *221* Encina-*594*
Brooks, Donald Cameron — SouthParis,Me. — Law 116·105+38 — 109 Toyon-*973*
LL.B., Stanford, 1925
Brooks, Karl — Pocatello, Ida. — Law gr. — 604 Gilman-*1334*
B.S., Dartmouth, 1923
Brooks, Phillip Terrill — San Jose — LD 160+60 — 546 Encina
Brooks, Phillips Gardner — Los Angeles — LD 75+3 — Phi Delta Theta-*1334*
Broughall, Helen Katherine — Los Angeles — Hist. 4·186+268 — Alpha Phi-*1387*
A.B., Stanford, 1925
Brown, Aileen Maude — Sacramento — LD8·63+63 — AlphaOmicronPi-*1367*
[1]Brown, Charles Helm — Fresno — LD 0–15 — 121 Encina
[5]Brown, Charlotte Hall — Riverside — Hist. 108+80 — Kingscote-*1354*
Brown, David Ewald, Jr. — Oakland — Chem. 7·174+114 — 31 Sequoia-*895*
A.B., Stanford, 1925
Brown, E. Stanley — Winnemucca, Nev. — Chem. 181+164 — 57 Sequoia-*553*
A.B., Stanford, 1925
Brown, Earnest H. — Lewistown, Mont. — LD 44+39 — 9 Cabrillo-*2024*
Brown, Edwin John — Emporia, Kans. — Educ. gr. — Stanford Park-*508*
B.S., Kansas State Teachers College, 1922; A.M., Stanford, 1925
Brown, Esther Eggers — Riverside — Engl. gr. — Manzanita-*1102*
A.B., Stanford, 1924
Brown, Evalyn Laetitia — Winnemucca,Nev. — LD 47+63 — *272* Roble-*1902*

Brown, George Archibald — Clifton, Kans. — Educ. gr. — Stanford Park-*508*
B.S., Kansas State Teachers College, 1924; A.M., Stanford, 1925
[5]Brown, Harmon Clifford — Riverside — Law 90·46+10 — 316 Union-*1102*
Brown, Hugh Harrison — Palo Alto — LD 89+26 — 567 Kingsley-p
Brown, Kenneth Clinton — Castle Crag — LD 67+15 — Phi Sigma Kappa-*538*
[23]Brown, Kenneth W. — San Francisco — Chem. gr. — Alpha Tau Omega-*1384*
A.B., Stanford, 1924
Brown, Leon Bernard — Los Angeles — Law 136+198 — 202 Toyon-*I*
[4]Brown, Marion — San Mateo — LD ‡ — 160 W. Poplar, SM-sm
Brown, Norton S. — Stanford Univ. — Pre-Clin.184+119 — 2 C'ksy Lane-*31*
A.B., Stanford, 1925
[4]Brown, Perry Fisher — Fresno — Sch. Ed. gr. — Los Altos
B.S., Wisconsin, 1897
[4]Brown, Russell R. — Montrose, Colo. — Educ. gr. — 415 Lytton-p
A.B., Western State, 1922
[12]Brown, Vance Meachem — Palo Alto — C.E. gr. — 356 Lincoln-p
A.B., Stanford, 1922
Brown, Walter Ambrose — Keyes — Econ. ‡ 41–7 — 32 Sequoia
[5]Brown, William B. — Los Angeles — Law 101·84+62 — 307 Kipling-*807*
[1]Browne, Gerald Albert — Bakersfield — Law 90·64+68 — 12 Sequoia-*2035*
[5]Browne, Lafe Todd — Santa Paula — Ent. 158+40 — Sig.Alph.Eps.-*1305*
[124]Brownell, Evelyn B. — Stanford Univ. — Engl. 27·93+77 — Kingscote-*1125*
[5]Brownstone, Louis H., Jr. — San Francisco — LD 66+115 — 222 Toyon
[23]Bruce, Niles Alfred — Elko, Nev. — Pol.S.-Jn.118·31+25 — 314Union-*551*
Bruce, Raymond Robert — Glendale, Ariz. — LD 73+67 — Phi Sigma Kappa-*538*
[124]Bruml, Leonard Foote — Palo Alto — Pre-Med. 136+243 — 159 Waverley-p
Brunet, Joseph — Palo Alto — Fr. gr. — Cedro Cottage-*1185*
A.B., Stanford, 1923, A.M., 1924
[5]Brunner, William Harold — San Jose — LD 75+51 — 172 Fremont, SJ-sj
[4]Brunton, Delbert — Fresno — Hist. gr. — 328 Union-*96*
A.B., Stanford, 1905
[1]Brunton, Lucile — Fresno — Ed. G.A. 80·25+15 — 169 Roble
Brust, Paul Raymond — San Francisco — Med. gr. — 2869 Clay St., SF-sf
A.B., Stanford, 1921
[4]Bryan, Darwin — Suisun — Law 15·127+30 — PhiKappaPsi-*1333*
[124]Bryan, Paul Charles — San Jose — Educ. gr. — 28 Magnolia, SJ-sj
A.B., Stanford, 1924
Bryant, Edwin Francis — Marysville — Chem. 159+64 — 115 Toyon-*5*
[5]Bryant, Howard Selva — San Jose — Min. 21·144+180 — 304 Toyon
Bryant, Ralph Walter — Marysville — LD 35–17 — 307 Encina-*5*
[3]Bryant, Wesley Byron — San Diego — LD 66·11+16 — 235 Encina
[5]Bryner, Claude Albert — Palo Alto — LD 171+18 — 131 Kellogg-p
Buchanan, A. Russell — Palo Alto — LD 96+95 — Box 431, p
Buchanan, Dorothy King — Palo Alto — Hist. 30·151+127 — Box 431, p
A.B., Stanford, 1925
[5]Buck, Frederick — Pasadena — Engl. 106+13 — 200 Portola-*664*
[234]Buddenhagen, Harold J. — Missoula, Mont. — Geol. 128·32+18 — 240 Bryant-p
Bullard, Frederick Gray — Piedmont — LD 38–7 — 357 Encina-*623*
Bullis, John Albert — Los Angeles — LD 45+37 — 304 Encina-*33*
Bullis, William Adlai — Los Angeles — Law 4·179+93 — 113 Encina-*33*
A.B., Stanford, 1925
Bullock, James R. — Pasadena — Law 183+132 — 316 Union-*75*
A.B., Stanford, 1925
Bulman, Robert — San Francisco — Med. gr. — 2447 Sacramento, SF-sf
A.B., Stanford, 1922

[234]Bulotti, Theodore A.	San Francisco	LD 18–17	21 Cabrillo
[3]Bundy, Caryl Leonard	Modesto	Econ. 116–22	502 Encina-*1782*
[4]Bunn, Margaret Natalie	Los Angeles	LD	Roble
[234]Bunn, Tom McConnell	Los Angeles	LD 49–22	1001 Ramona-p
Bunnell, Virginia	Los Angeles	LD 61+72	Gam. Phi Beta-*1337*
Burch, Mary Crowell B.L., California, 1907, M.L., 1908	San Jose	Educ. gr.	15 S. 13th, SJ-sj
Burcham, Donald Lusk	Spokane, Wn.	LD 28–10	124 Encina-*887*
Burchell, Stanley LeBaron	Salinas	LD 91–3	Theta Chi-*1383*
[5]Burck, Gail Johnson	Los Angeles	LD 84+12	Alpha Delta Phi-*J*
[12]Burdick, William E. A.B., Stanford, 1925	Palo Alto	Min. 181+131	636 Gilman-p
Burger, Frances Bellamy	San Diego	LD 39+35	159 Roble-*1915*
Burgess, Charles Preston	Palo Alto	LD 78–5	308 Branner-*1774*
Burgess, Dorothy Grace B.S., Montana State, 1923; A.M., Stanford, 1925	Bozeman, Mont.	Bot. gr.	459 Hamilton-*1246*
[12]Burgess, James M. A.B., University of Oregon, 1919; A.M., Stanford, 1925	Astoria, Ore.	Educ. gr.	27 Encina Ave.-*1012*
Burgess, Keith	Pomona	LD 154+39	550 Kingsley-p
[4]Burggraf, Katherine B.S., Idaho, 1925	Blackfoot, Idaho	Educ. gr.	Roble-*977*
[4]Burglon, Nora O.	Everett, Wn.	LD ‡	832 Kipling-p
Burk, I. Lucile	Madera	LD 50+98	273 Roble
Burkhard, William G. A.B., Stanford, 1923	San Francisco	Med. gr.	1348 Dolores, SF-sf
[23]Burks, Aileene Sabina	Venice	Engl. 68·71+12	Kap.Kap.Gamma
[12]Burks, Barbara Stoddard A.B., Stanford, 1925	Berkeley	Psych. gr.	Manzanita-*574*
[5]Burks, Dana, Jr. A.B., Stanford, 1924, A.M., 1925	Menlo Heights	Chem. gr.	Menlo Heights
[1]Burks, Ruth Crutcher	Palo Alto	Span. 58·84+50	436 Waverley-p
[4]Burlingame, Carrie Max A.B., Colorado, 1909	Porterville	Span. gr.	Roble
Burlingame, Edith Mildred A.B., Stanford, 1925	Stan. Univ.	Psych. 180+242	24 Alvarado-*1455*
Burlingame, Lucile Anna	Stan. Univ.	S. Biol. 110+91	24 Alvarado-*1455*
Burnett, Clarence Irvin A.B., Stanford, 1923	San Francisco	Med. gr.	929 Haight, SF-sf
Burnett, Martha Arques	San Jose	LD 47·44+22	309 Roble
Burney, Dudley Haskell A.B., Stanford, 1925	Denver, Colo.	Hist. 108·76+53	4 Sequoia-*56*
[4]Burns, Angelina Bradley A.B., Idaho, 1919	Redwood City	Hist. gr.	27 Hopkins, RC-rc
[4]Burns, Charles A.B., College of the Pacific, 1916	Fresno	Hist. gr.	415 N. 5th St., SJ-sj
Burns, Douglas Erickson	Ojai	LD 87+11	Delta Chi-*1304*
[5]Burns, Odis Herschel A.B., Kansas, 1916	Palo Alto	Law gr.	535 Cowper-p
Burrell, Kenneth Hare	Oakland	LD 127+70	Al.Kap.Lambda-*658*
[1]Burress, Harold Drown	Los Angeles	LD 23–34	216 Branner
[4]Burt, Anna Howell A.B., Butler, 1908; A.B., Chicago, 1908	Sacramento	Engl. gr.	167 Roble-*873*
Burton, Grant Arthur	Moraga	LD 43+52	127 Encina
[1]Burton, Joe Henry	Slaton, Texas	LD 0–14	235 Encina-*1594*
Busby, Beryl	Santa Ana	Econ. 46·77+70	Alpha Phi-*1385*

Busch, Burt W.	Ukiah	LD 94+31	448 Encina-*1266*
Busch, James Elmer	Ukiah	LD 45+14	448 Encina-*1266*
Bush, Frederic Andrew A.B., Stanford, 1925	Palo Alto	Geol. 191+22	1121 Bryant-p
Bush, Valdi Rounds A.B., Stanford, 1924	Oakland	Med. gr.	2186 California, SF-sf
Bushnell, George Harley	San Francisco	LD 90–2	Beta Theta Pi-*1335*
[13]Buss, Fred E. A.B., Brigham Young, 1913; A.M., Stanford, 1924	Provo, Utah	Geol.gr.	520Columbia,M-Box345,p
Butler, Humphrey Bayford	London, Eng.	LD 77–17	112 Toyon-*546*
[4]Butler, Raymond Ignatius A.B., Gonzaga. 1915, A.M., 1916	Tacoma, Wn.	Educ.gr.	55W.SanFernando,SJ-sj
[5]Butler, Worth Hervey	Los Angeles	Min. 104+118	Theta Xi-*1355*
Butt, Edward Merchant A.B., Stanford, 1924	San Francisco	Med. gr.	814 California, SF-sf
Butterfield, Albert Edward A.B., Southern California, 1922	Chino	Med. gr.	2329 Sacramento, SF-sf
[5]Button, A. Ronald	Long Beach	Law 95·82+43	1004 Ramona-p
[12]Buttrey, Adelbert John A.B., Stanford, 1925	Craigmont, Ida.	Hist. 183+94	65 Sequoia-*1765*
Buttrey, Elmer Mervin	Craigmont, Ida.	LD 83+11	39 Sequoia-*1765*
Butzbach, Arthur Graham	San Jose	Law 90·47+24	97 Curtiss, SJ-sj
[1]Buzard, Reynolds Lawrence	Berkeley	LD 70+58	Alexandria Hotel-p
Bye, Sigurd Edward A.B., Stanford, 1925	Portland, Ore.	Hist. 182+51	130 Branner-*1094*
[5]Byrne, Carlton Earley	Santa Cruz	LD 95+116	111 Toyon-*1468*
Byrne, John Drennan	Santa Cruz	LD 59+36	257 Toyon-*1604*
[4]Cady, Louis Clyde B.S., Idaho, 1922	Moscow, Idaho	Chem. gr.	25 Brattle, MP-mp
[4]Cady, Osman Horace B.S., Washington, 1915, M.S., 1919	Corvallis, Ore.	Chem. gr.	Stanford Park
Cahen, Robert P. A.B., Stanford, 1923, J.D., 1925	San Francisco	Law gr.	317 Union
[12]Cain, Homer G. A.B., Stanford, 1924	Santa Ana	Math. gr.	25 Sequoia-*688*
[5]Cairns, Earl W.	Pasadena	Econ. 136+12	Alpha Delta Phi-*JJ*
[12]Caldon, Henry Gilbert	Monrovia	LD ‡ 28–23	221 Toyon-*2022*
[3]Caldwell, George Wardrop	Pasadena	Pre-Med. 128·26–5	Sigma Chi-*628*
Call, Harry W.	Eureka	LD sp. 41+8	401 Bryant-p
[5]Callander, Ellen	Fargo, N.D.	Span. 144+218	Kingscote-*1354*
[4]Callender, Harry Rea, Jr.	Los Angeles	LD ‡	Alpha Delta Phi-*JJ*
Calvert, William Nixon	Los Angeles	LD 40–12	116 Encina
[5]Calvin, John Thornton A.B., Washington, 1924	Palo Alto	Engl. gr.	227 Toyon
[23]Calvin, Ruth Anderson A.B., Reed, 1919	Palo Alto	Psych. gr.	519 Addison-p
Cameron, Clifford S.	Aberdeen, Wn.	LD 142+63	301 Branner-*561*
[12]Cameron,Meribeth Elliott A.B., Stanford, 1925	Santa Monica	Hist. 189+329	227 Roble-*1325*
[4]Camp, Maree Catherine	Palo Alto	LD ‡	318 Hawthorne-p
[234]Campbell, Clyde Leroy	Pasadena	Min. 92·77+35	Theta Xi-*801*
Campbell, Ian James	San Mateo	M.E. 160+7	W.St.Inez,SM-*1383*
Campbell, Orvin W.	Lodi	LD 45+17	205 Encina-1533
Campbell, Thomas Allen A.B., Stanford, 1925	Phoenix, Ariz.	Law 91·103+54	Beta Theta Pi-*505*

[3]Campbell, Walter McNutt	Alhambra	LD 63–12	Alpha Sigma Phi-*1357*
[12]Canfield, John Charles	Cat Creek, Mont.	LD 30+20	120 Encina
Canfield, Laurence P.	Santa Cruz	Ed. G.A. 107–4	Sigma Chi-*628*
Cann, George Arthur A.B., Nevada, 1923	Reno, Nev.	Med. gr.	326 Union-*1963*
Cann, William Silas A.B., Nevada, 1923	Reno, Nev.	Med. gr.	326 Union-*1963*
Cannon, Alfred Richard	Millbrae	LD 46+6	431 Encina
Cannon, Robert Proctor	Palo Alto	Geol. ‡ 50+17	301 Addison-p
[5]Capell, Katherine F.	Council Bluffs, Ia.	Hist.138+210	DeltaDeltaDel.-*1325*
[1]Cardoza, Alfred Thomas	Palo Alto	Law 22·108+8	760 Homer-p
[4]Cargill, Gladys Lermond B.S., Boston University, 1923	Marietta, Ohio	Hist. gr.	Madroño
[4]Cargill, Oscar B.S., Wesleyan, 1922	Marietta, Ohio	Engl. gr.	Madroño
Carlsmith, Carl Wendell	Hilo, Hawaii	Law 150+168	201 Toyon-*607*
Carlsmith, Margaret Estelle A.B., Stanford, 1922	Hilo, Hawaii	Med. gr.	2120 California, SF-sf
Carlsmith, Merrill Lawrence	Hilo, Hawaii	LD 53+47	123 Encina-*607*
[4]Carmichael, Jacob	San Jose	Educ.90·45+34	312W.S.F'do-SJ-sj
[5]Carnahan, Chalon Wesley	San Jose	LD 48·52+52	230 Union
Carnahan, Charles Trunnell	Los Angeles	LD 98+73	248 Encina-*1050*
[12]Carnahan, Kenneth Emerson A.B., Stanford, 1925	San Jose	Hist. 180+20	Senter Rd., SJ-sj
[4]Carpenter, Francis T. A.B., Arizona, 1921	Morenci, Ariz.	Educ. gr.	1181 Palo Alto, M-m
Carpenter, Helen Elizabeth	Richmond	LD 41–1	229 Roble-*862*
[234]Carpenter, Howard L.	Santa Paula	LD 31+22	306 Toyon-*1209*
[4]Carpenter, Laura Rebecca A.B., Michigan, 1917	San Francisco	Sch. Ed. gr.	357 Roble
[4]Carpenter, Marion Bernice A.B., Stanford, 1924	Santa Paula	Engl. gr.	Manzanita-*1209*
[4]Carr, Helen Mae Ph.B., Wisconsin, 1915	Havre, Mont.	Engl. gr.	Roble
Carr, John Edwin A.B., Stanford, 1925	Porterville	Law 72·129+43	209 Homer-p
Carr, Robert Mack	Stockton	Engl. 131+109	Theta Chi
Carr, William Herbert	Hanford	LD 45+5	201 Encina-*672*
Carriere, John G., Jr.	Washington, La.	LD 144+108	240 Branner-*2034*
Carrithers, Margaret Lois	Delano	LD 43+10	269 Roble-*1525*
[5]Carroll, Joseph Snyder B.S., Utah, 1920; Engineer, Stanford, 1924	Palo Alto	E.E. gr.	601 Channing-p
Carson, James Gilmore A.B., Stanford, 1925	San Francisco	Pre-Clin. 113·79+27	310 Union-*J*
Carter, Benjamin Chadwick	San Jose	LD 41–5	430 Encina
Carter, Charles Vance A.B., Stanford, 1925	Oakland	M.E.17·171+72	Del.TauDelta-*1363*
[4]Carter, Clinton C. B.S., Central Missouri State Teachers College, 1925	Reedley	Educ. gr.	465 Hawthorne-p
[1]Carter, J. Ward	Riverside	LD 36–13	547 Encina-*J*
[4]Cartwright, Lon D., Jr. A.B., Texas, 1924	Beaumont, Tex.	Geol. gr.	210 Toyon
[12]Carvell, Margaret George A.B., Stanford, 1925	Palo Alto	Engl.-Jn. 185+160	723 H'mltn-*993*
Carver, Keath L. A.B., Stanford, 1925	Los Angeles	Econ. 181+261	116 Branner

Carver, Lloyd Charles Trident, Mont. Law gr. Phi Sigma Kappa-*538*
A.B., Stanford, 1925
[5]Carver, Sanford E. Bellingham, Wn. Educ. ‡ 46+11 717 Bryant-p
[2-4]Cary, Colin R. Mandan, N. D. LD 38–13 236 Toyon
Casad, Barry West Point, N. Y. LD 92+7 Theta Xi-*1355*
Case, Evelyn Hart Santa Clara Med. gr. 924 Lincoln, SC-sc
A.B., College of the Pacific, 1922
Case, Myron D. Sunnyvale M.E. 48·153+186 209Hol'nbk, S-s
A.B., Stanford, 1925
[5]Case, Nelson Perry Palo Alto Phys. gr. 659 Forest-p
A.B., Stanford, 1924
Cass, Alonzo Beecher So. Pasadena LD 44+9 *226* Encina
Castellanos, Joseph Calixto Los Angeles LD 48+58 32 Encina-*1637*
[23]Castner, Huntley Los Angeles LD 73+8 Phi Kappa Psi-*1333*
Cathcart, Wallace Daniel Palo Alto LD 89+89 1215 Emerson-p
[4]Catlin, Ella Jones Fresno LD ‡ 338 Cowper-p
[4]Catlin, Robert Allen Kingsburg Educ. 46·16+8 338 Cowper-p
[4]Cattell, Psyche Garrison, N. Y. Psych. gr. *276* Roble
Ed. M., Harvard, 1925
Cattoir, Francis Raymond Arroyo Grande LD 88+76 11 Sequoia
[5]Caukin, Esther Berkeley Hist. gr. 1055 Cowper-p
A.B., Mills, 1924; A.M., Stanford, 1925
Cavalero, Philip Stockton LD 50+73 338 Encina-*2027*
Cecil, Robert Edgar Palo Alto LD 45+26 403 Encina-*1098*
Center, Hugh Stuart San Jose LD 100+84 Delta Tau Delta-*1363*
[4]Center, Mary S. San Jose Educ. ‡ 18+19 103 Roble
[5]Chaffee, Clare S. Garden Grove Chem. gr. 136 Encina-*1171*
A.B., Stanford, 1924
[1]Chaffee, John Matthew Bloomington LD 53–14 239 Branner
[1]Chalmers, Harry Hollis Pocatello, Ida. Law 14·135–25 Kappa Alpha-*1356*
Chamberlain, Robert S. Canton, Ohio Hist. 5·178+223 Al. Sig. Phi-*1357*
A.B., Stanford, 1925
Chambers, Dudley Elston San Diego LD 76+9 27 Sequoia-*1145*
Chambers, Eleanor Kathleen Ireland Chem. gr. Madroño-*1443*
A.B., California, 1922; A.M., Stanford, 1925
[4]Chambers, Ralph S. Potlatch, Idaho Educ. gr. 760 University-p
A.B., Park, 1912
Chandler, Carol Adelene San Diego Hist. 47·87+81 Pi Beta Phi-*1332*
[5]Chandler, Harrison G. Otis Los Angeles Econ.108–4 DeltaKappaEpsilon-*O*
[4]Chandler, Helen Los Angeles LD ‡ Roble
Chandler, Margaret Palo Alto LD 44+4 *360* Roble
Chang, David Kiong Kauai, T. H. Med. gr. 2011 California, SF-sf
A.B., California, 1922
Chantry, Kenneth Neal Los Angeles Pol. S. 140+3 Delta Chi-*1304*
[23]Chapman, Helen Hawley Alma LD 70+7 Alpha Omicron Pi-*1367*
A.B., Stanford, 1925
[1]Chapman, James Lincoln Palo Alto LD 8–15 1130 Bryant-p
[34]Chappellet, Cyril Los Angeles LD 49–25 DeltaKappaEps.-*OO*
[5]Chaquette, Marion C. Palo Alto Fr. 132+34 544 Coleridge-p
Charles, Allan Earle Palo Alto Law 181+176 PhiDeltaTheta-*1334*
A.B., Stanford, 1925
Charles, Raymond W., Jr. San Francisco LD 35–8 237 Encina-*1937*
[5]Chase, Don Marquis Atascadero Sch. Ed. gr. County Road
A.B., Stanford, 1924, A.M., 1925
[234]Chase, Edwin Morey Delta, Colo. LD 11·106+43 Phi Gam.Delta-*1324*

Chase, G. Elizabeth A.B., Stanford, 1925	Palo Alto	Hist. 37·143+68	147 Emerson-*717*
Chase, Howard Stephen A.B., Stanford, 1925	San Jose	Econ.180+114	DeltaTauDelta-1363
Chase, M. Bernice	San Jose	LD 10·90+63	Chi Omega
[12]Chase, Mary Katherine A.B., Stanford, 1922	Palo Alto	Fr. gr.	147 Emerson-*717*
Cherry, Donald Langer	Santa Cruz	LD 46+56	318 Encina-*1561*
Chester, George Avery	San Diego	C.E. 90·45+27	53 Sequoia-*1724*
Cheu, Henry Docfoo A.B., Stanford, 1925	Canton, China	Pre-Clin.188+104	ChineseCl'b-*1019*
Chilcote, Russell Cooper A.B., Stanford, 1921	San Francisco	Med. gr.	2401 Sacramento, SF-sf
[5]Chope, Harold D.	San Jose	Chem. 90·46+69	64 S. 10th, SJ-sj
Chow, Lee	China	LD 48·19–12	Chinese Club-*1765*
[3]Chrisman, Herman Henry A.B., Stanford, 1922, A.M., 1923	San Jose	Hist. gr.	695 E. St. James, SJ-sj
Christ, Herbert George	San Francisco	LD 46–1	40 Encina
[5]Christensen, Parley A. B.S., Utah Agricultural, 1914; A.M., Stanford, 1925	Menlo Heights	Engl. gr.	University Park
Christian, William T.	Minneapolis, Minn.	LD 45+23	410 Encina-*712*
Chuan, Tseng-Ku A.B., Stanford, 1925	Shanghai, China	Phil. gr.	205 Union-*1129*
Chubbuck, Charles Dixon,	San Francisco	LD 44+14	323 Encina-*1008*
[12]Chuck, Faw-Yap A.B., Stanford, 1922, Engineer, 1923, Ph.D., 1925	Canton, China	Chem. gr.	12 Cabrillo-*1033*
[5]Chun, Franklin Sunn	Sacramento	Econ. 83·49+29	233 Union-*1765*
Church, Clifford Carl A.B., Oklahoma, 1923; A.M., Stanford, 1925	Carmen, Okla.	Geol. gr.	1140 Bryant-p
[5]Churchill, Pauline W.	Bartlesville, Okla.	Law 119+50	265 Roble-*1179*
[4]Churchill, Ruth Elizabeth	Fullerton	LD 67·16+0	148 Roble
[1]Chute, George Roger A.B., Stanford, 1925	San Francisco	Econ. 134·60+13	445 Encina
[23]Cilley, Herbert Arthur	Long Beach	Phyl. 153+84	R.F.D.Box 12, p
Clancy, Frances Edith	Riverside	LD 43+30	344 Roble-*1917*
Clapp, Elizabeth Earl	Burlingame	LD 96+4	Kap. Kap. Gam.-*1354*
[12]Clark, Alfred Fuller	Rivera	LD 14·38–35	305 Union-*998*
Clark, Charles Kittredge	Berkeley	LD 49+9	107 Encina-*1901*
Clark, David Bridgman	Stanford Univ.	C.E. 138+58	4 Cabrillo-*1575*
Clark, Donald Eastman A.B., Stanford, 1925	Stanford Univ.	Chem. 186+183	4 Cabrillo-1575
Clark, Dorothea Miller A.B., Stanford, 1922, A.M., 1925	Los Angeles	Ed. G.A. gr.	Chi Omega-*1386*
Clark, DuWayne Gerald A.B., Stanford, 1925	Los Angeles	Hist.32·148+82	ThetaDel.Chi-*1828*
Clark, Elizabeth Allerton	Berkeley	LD 48+34	184 Roble
[4]Clark, Georgia M. A.B., Michigan, 1905, A.M., 1913	New York, N. Y.	Sch. Ed. gr.	558 Lincoln-p
Clark, G. Houghton	Helena, Mont.	LD 88+15	Theta Xi-*966*
[4]Clark, John Dustin B.S., New Hampshire, 1906, M.S., 1907; Ph.D., Stanford, 1914	Albuquerque, N. M.	Chem. gr.	1115 Palo Alto, M-m
Clark, John William	Bishop	LD 44+42	251 Encina-*1422*
Clark, John Woodhull	Aberdeen, Wn.	LD 94+55	Sigma Chi-*628*
Clark, Joseph Edward A.B., Stanford, 1925	Los Angeles	Geol. 180+9	320 Encina-*2002*

Clark, Orion Frederick A.B., Stanford, 1925	Los Angeles	Law 180+17	222 Toyon-*1514*
Clark, Ray Eldon	Berkeley	LD 69+6	3 Alvarado-*803*
Clark, Robert Wellington	Salinas	LD 93+59	21 Toyon-*1444*
Clark, Thomas Stewart	Wilmington	Econ. 123+6	PhiGam.Delta-*1324*
Clark, Truman Howe	Petaluma	LD 57–35	AlphaKap.Lamb.-*658*
Clark, William A. A.B., Stanford, 1925	Montana	Geol. 5·180+22	61 Sequoia-*966*
[4]Clarke, Charles Haden	New York, N.Y.	LD ‡	
[4]Clarke, James Roy B.S., South Dakota State College, 1909	Oregon City, Ore.	Chem. gr.	110 Toyon
[3]Clay, Alex Martin	Mountain View	LD 9+0	Fremont Ave., MV-mv
[5]Cleary, Gerald George	San Francisco	S.Biol.-Med.67·110+2	559Cowp'r-p
[1]Cleaveland, Loraine A.B., Stanford, 1925	Berkeley	Econ.46·136+66	Kap.K.Gam.-*1354*
[1]Cleaveland, Norman A.B., Stanford, 1925	Stanford Univ.	M.E. 217+13	113 Encina-*628*
Clemans, Kate Smith	Alpine, Wn.	Engl. 110·45+16	Kingscote-*1280*
[4]Clemmons, June Neville A.B., State College of Washington, 1920	Tacoma, Wn.	Engl. gr.	Roble
Clendening, Robert	Jamestown, N. D.	Econ. 90·40+14	559 Encina-*2023*
[5]Clifford, Charles Randall	Turlock	Engl. 129+9	El Toro-*1352*
[1]Clinton, Lawrence Thomas	Los Angeles	LD 5–9	109 Encina-*1963*
Clock, Anita Kathreen	Redlands	LD 82+44	Kap.Kap.Gam.-*1354*
[2]Clough, Philander O.	Fillmore	Law ‡ 47–30	257 Toyon-*1974*
Clover, George I.	Woodland	LD 46+23	351 Encina
[4]Clumeck, Ned Nathaniel	Singapore,Str.S.	LD	322 Union
Clyde, Paul Hibbert A.B., Stanford, 1921, A.M., 1922, Ph.D., 1925	Victoria, B. C.	Hist. gr.	651 Waverley-*141*
Clymer, Eugene Walter	Yuma, Ariz.	LD 77–5	35 Sequoia
Cobb, Alma Loleta	Fresno	Econ. 64·79+85	Del.Del.Del.-*1325*
[12]Cobe, Frank S. A.B., Stanford, 1925	Boston, Mass.	M.E. 117·78+34	307 Union-*1546*
Cobe, Herbert M. A.B., Michigan, 1923	Los Angeles	Bact. gr.	308 Union-*1546*
[1]Coen, Frank Hugenin	Monrovia	LD 84·64–1	PhiKap.Sigma-*1306*
Coen, Richard Davis A.B., Stanford, 1925	Roseburg, Ore.	Econ.48·134+110	PhiKap.Sig.-*1306*
[1]Coffill, Wade Hampton	Sonora	LD 32–2	105 Emerson-p
[12]Coffin, Harry Tristram, Jr.	Los Angeles	LD 118–14	Delta Upsilon-*1553*
[2]Cogswell, James Keller	Grass Valley	LD sp. 14+11	45 Encina
[1]Cohen, Mark Madison A.B., Stanford, 1922, J.D., 1925	Portland, Ore.	Law gr.	564 Encina-*1184*
[4]Cohen, Theresa Tobeg	San Francisco	Econ. ‡	228 Roble
Cohn, Arthur Cardinet A.B., Stanford, 1925	San Francisco	Law 180+205	114 Branner-*735*
Cohn, Lawrence Ted A.B., Stanford, 1925	San Francisco	Hist. 181+79	114 Branner-*735*
Colby, George Wilbur A.B., Stanford, 1925	Oakland	M.E. 187+39	54 Sequoia-*864*
Coleman, Norton	Seattle, Wn.	LD 87+3	Sigma Chi-*628*
Coleman, Ray Joe	Long Beach	LD 44+35	209 Encina-*1552*
[4]Colestock, Harry Ludwig A.B., Columbia, 1904	Los Angeles	Engl. gr.	Cowper Court

[23]Colfelt, Natalye A. Menlo Park Pol. S. gr. University Park-*1563*
A.B., Vassar, 1921; A.M., Stanford, 1923
[5]Collens, Bernard Scoles New York, N.Y. LD ‡ 65+2 244 Toyon-*501*
Collett, Charles Elmer San Francisco Law 185+67 Delta Tau Delta
A.B., Stanford, 1925
[5]Collier, Bertha Elsie Decatur, Ill. Engl. gr. 311 Middlefield-p
Ph.B., Chicago, 1915; A.M., Stanford, 1919
Collins, Burton Vincent, Jr. Los Angeles LD 32–16 304 Encina-*1682*
Collins, Calvin Gaines Auburn LD 46+14 425 Encina-*1932*
Collins, James Philmore Fresno Zool. 87-48+47 255 Toyon-*H2*
Collins, John Stephenson Courtland LD 91+8 Zeta Psi-*B*
Collins, Junior Jennings Los Angeles Law gr. 46 Sequoia-*2051*
A.B., Stanford, 1925
Collins, Marion Carter Turlock LD 86+1 137 Toyon
[4]Collins, Opal Helene Seattle, Wn. Econ. gr. Roble
A.B., Washington, 1916, A.M., 1917
[23]Collins, Sheldon Heber Longview, Wn. LD 24+4 County Road-*1645*
Colton, Arthur Harry San Francisco LD 91–7 578 University-p
Colvin, Timothy Edward Piedmont M.E. gr. Phi Gamma Delta-*1324*
A.B., Stanford, 1925
Combellack, Fred M. San Francisco LD 42+39 230 Encina
[5]Comparet, Bertrand Lewis San Diego Law gr. 17 Toyon-*1123*
A.B., Stanford, 1924
Compton, Frank Andrew, Jr. Stirling City LD 92+55 450 Encina-*I*
Condit, Thomas Ayers Los Angeles Law 133+53 633 Seneca-*1324*
Cone, Dorothy Hilyard Carmel LD 44+4 239 Roble-*1856*
Conklin, Charles Davis Bakersfield LD 49+28 423 Encina
Conn, Claude Cyrus Greeley, Colo. LD 46+45 136 Encina-*1914*
Conner, William Watkins Modoc, Ind. LD 78+37 656 Bryant
Conners, G. Wilbert, Jr. Santa Rosa LD 96+73 56 Sequoia-*828*
[4]Connolly, Anna Josephine Menlo Park Sch. Ed. gr. Menlo Park
A.B., Loyola, 1924
Connolly, George A., Jr. San Francisco LD 44+8 140 Encina
Connolly, John Briggs San Francisco Law gr. 531 Encina-*605*
A.B., Stanford, 1924
[5]Connolly, Thomas Edward, Jr. Stockton Econ.-Jn. 156+21 Theta Chi-*1383*
[4]Connor, Ruie A. Palo Alto Span. gr. 1345 Webster-p
Ph.B., Michigan, 1899
Conover, Arthur Brooks Orange, N.J. Econ. 180+254 Kappa Sigma-*1326*
A.B., Stanford, 1925
[4]Conradt, John N. Steinauer, Neb. LD sp. 407 Waverley-p
Conron, Calvin Halsey, Jr. Modesto Law 182+78 316 Union-*577*
A.B., Stanford, 1925
Conron, Harry Maxwell Modesto LD 89+80 450 Encina-*577*
Conroy, Thomas Francis, Jr. Santa Cruz LD 91+73 137 Toyon-*121*
[4]Converse, Charles Willard Palo Alto Sch. Ed. gr. R.R.1, Box 15, p
A.B., Oregon, 1902, A.M., 1905
[23]Converse, Edmund Cogswell Alameda LD 30+40 224 Encina
Converse, Willard Baxter Ravenswood LD 91+57 Ravenswood-Box906,p
[5]Conway, Mary Josephine Los Angeles Law 128+84 252 Kingsley-*1354*
[4]Cook, Adella Burlingame Chem. gr. 522 Almer R., B-b
B.S., California, 1908; A.M., Stanford, 1922
Cook, Albert Lyle Los Angeles LD 49+39 23 Encina
Cook, Charles Elsworth Santa Ana LD 44-46+6 428 Encina-*1524*

Cook, Robert Chambers A.B., Stanford, 1925	Palo Alto	M.E. 206+120	520 Everett-p
Cook, Stanley James	San Jose	LD 45+71	105 Encina
[18]Cooke, Edward Howd	Los Angeles	LD 63–4	25 Salvatierra
[23]Cooke, Frederick James	San Francisco	LD 20–1	60 Worth, SF-sf
[5]Cooke, W. Henry A.M., Pomona, 1921	Stanford Univ.	Hist. gr.	University Park-*1172*
Cooke, William Clifford A.B., Stanford, 1922	Palo Alto	Med. gr.	2402 California, SF-sf
[4]Cooley, Charles Richard	Tabor, S.D.	LD sp.	333 Portola-p
Cooley, Chester Lynn A.B., Stanford, 1924	Pasadena	Med. gr.	2402 California, SF-sf
Coolidge, Coit	Santa Barbara	LD 45+31	5 Cabrillo
[4]Coons, Arthur Gardiner A.B., Occidental, 1920; A.M., Pennsylvania, 1922	Anaheim	Econ. gr.	Kappa Sigma
Coons, Robert W.	Aberdeen, Wn.	LD 43+27	324 Encina-*586*
Cooper, John Benjamin	Reno, Nev.	LD 86+88	126 Branner-*715*
[3]Cooper, Mary-Virginia	Los Angeles	LD 16+5	*227* Roble-*1887*
Cooper, William A.	Mountain View	LD 56+3	111 Encina
[4]Coperrider, Albert O. A.B., Colorado, 1904	Arcata	Educ. gr.	*256* Toyon
Copeland, George Israel	San Francisco	LD 45–7	215 Encina-*1632*
Cornelison, Elmo	San Bernardino	LD ‡ 35–18	17 Encina-mp
Cornell, Elton Fred A.B., Stanford, 1923, A.M., 1924	Sunnyvale	Chem. gr.	AlphaKap.Lamb.-*658*
Cosgrave, Margaret	Fresno	Fr. 5·119+74	Chi Omega-*1386*
[8]Cotton, Norman Winfield	Fort Bragg	LD 60+26	30 Sequoia
Cotton, R. Charmion	Fort Bragg	LD 42·53+17	551 Lytton-p
[4]Couch, Mary Juanita A.B., Stanford, 1910	San Jose	Bot. gr.	*329* So. 5th, SJ-sj
Coughran, Thomas Bristol	Visalia	LD 82+0	Kappa Sigma-*1326*
Coulthard, Cecile Mae A.B., Michigan, 1919; A.M., Stanford, 1925	Hastings, Mich.	Cl. Lit. gr.	7 Alvarado
[3]Coverley, Charles Erskine	Hollywood	LD 41·13+0	*326* Encina-*1697*
Coverley, Ruth Rosalind	Hollywood	LD 85+121	Pi Beta Phi
Covert, Timon B.S., Kansas State Teachers College, 1924; A.M., Stanford, 1925	Emporia, Kans.	Educ. gr.	Menlo Park-mp
[4]Cowan, Glenn Fay B.S., Utah Agricultural, 1923	Payson, Utah	Law gr.	203 Union
Cowan, John B.	Johnson City, N.Y.	LD 43+32	Menlo School-*1421*
[12]Cowdery, Karl Montague A.B., Oberlin, 1915; A.M., Stanford, 1922	Stanford Univ.	Psych. gr.	28 Alvarado-*1186*
Cowen, Philip Henry	Langdon, Canada	Econ. 23·126+4	68 Sequoia-*1053*
Cox, Alvin Joseph, Jr.	Palo Alto	LD 91+119	1118 Emerson-p
[5]Cox, Clyde Edward	St. Anthony, Ida.	Pre-Med. 98+62	72 Sequoia-*1081*
[12]Cox, Harold Eugene, Jr.	Pasadena	LD 64–16	Alpha Delta Phi-*J*
[5]Cox, Hope A.B., Stanford, 1924	Chappaqua, N.Y.	Law gr.	Madroño-*141*
[1]Cox, Wesly Philip	Dallas, Texas	LD 13+1	30 Encina-*1854*
[1]Coyle, Daniel Kenneth A.B., Stanford, 1925	San Jose	E.E. sp. 182+3	528 S. 2nd, SJ-sj
[4]Coyle, Kathleen	San Mateo	LD ‡	301 Griffith, SM-sm
[4]Crabb, Rachel Elizabeth A.B., Montana, 1924	Los Gatos	Hist. gr.	Los Gatos-lg
[4]Crady, Marie	Palo Alto	LD ‡	1001 Ramona-p

Craft, Benjamin Cole	Cupertino	LD 93+42	Kappa Sigma-*1326*
[23]Craig, Catherine Janett A.B., Stanford, 1925	Cheney, Wn.	Hist.110-71+22	Gam.PhiBeta-*1337*
[4]Craig, Ethel Claire A.B., Oberlin, 1909	Phoenix, Ariz.	Educ. gr.	Roble
Cramer, Glenn Edwin	Santa Monica	Hist. 148–2	52 Sequoia-*1294*
Cramer, Sterling Sherman A.B., Stanford, 1925	Cleveland, O.	Psych. 94-87+71	21 Sequoia-*1761*
[4]Crandall, Ruth A.B., Stanford, 1914	Palo Alto	Ed. G.A. gr.	737 Waverley-p
[8]Crane, Amie Cordelia A.B., Western College for Women, 1919	Toledo, O.	Educ. gr.	Madroño
[1]Crane, Frederick Wiser	Carman, Ill.	M.E. ‡ 3–16	PhiSigmaKappa-*538*
Crane, Leah Alice	Garden Grove	Hist. 90-44+38	217 Roble-*42*
[4]Crane, Richard Lyle	San Mateo	LD ‡	San Mateo-sm
Crary, Leonard Lamson	Burlingame	LD 36+15	117 Encina
[3]Crary, Ralph Ward, Jr.	Palo Alto	LD 16+15	444 Tennyson-p
Crase, Herbert Richard A.B., Stanford, 1923	Los Angeles	Med. gr.	2215 Buchanan, SF-sf
[1]Craven, Wilson A.B., Stanford, 1925	Bellingham, Wn.	Law 180+228	538 Encina-*1005*
[12]Crawford, Albert Hartley A.B., Stanford, 1925	Los Angeles	Econ. 51-130+3	Sigma Chi-*628*
[5]Crawford, Arthur Lorenzo A.B., Stanford, 1923	Palo Alto	Geol. gr.	1027 Bryant-p
[4]Crawford, Earle Eugene A.B., Michigan, 1919	Napa	Sch. Ed. gr.	531 Harvard, M-m
[5]Crawford, Lynn Howard A.B., Stanford, 1925	Santa Ana	Hist. gr.	Encina-*576*
[4]Crawford, Vesta Pierce A.B., Brigham Young, 1923	Palo Alto	Educ. gr.	1027 Bryant-p
Creagh, Merrick W., Jr.	San Francisco	LD 78+78	909 Alma-p
Crebs, Elizabeth Stewart	Los Angeles	LD 75+65	Pi Beta Phi-*1332*
Crebs, William Jones	Los Angeles	LD 41–4	427 Encina-*2019*
[12]Creglow, Loran Andrew A.B., Stanford, 1922, Engineer, 1925	San Francisco	Min. gr.	13 Union
[1]Cressey, Muriel Mildreth	Modesto	LD 51–24	Alpha Phi-*1387*
Crever, Frederick Emanuel A.B., Stanford, 1925	San Jose	M.E. 202+333	14 Broadway,SJ-sj
Crickmay, Colin Hayter A.B., British Columbia, 1922; Ph.D., Stanford, 1925	N.Van'cvr.,B.C.	Geol. gr.	347 Alma
Criley, Theodore Brotherton	Carmel	LD 101+109	250 Toyon-*25*
Crimmins, Edward Custis	San Francisco	LD 67+8	Zeta Psi-*B*
Crist, Frank Lee A.B., Stanford, 1924	San Francisco	Law gr.	537 Encina-*1853*
[13]Crist, Marion L. A.B., Stanford, 1925	San Bernardino	C.E. 52-129+115	127 Branner-*93*
Crobaugh, Alva Bernard A.B., Stanford, 1925	Palo Alto	Econ. gr.	1836 Bryant-*1279*
Crocker, George Nathaniel	San Francisco	Law 140+195	139 Branner
[5]Cromwell, Lewis Hall A.B., Stanford, 1925	Palo Alto	Law gr.	218 Cowper-p
[5]Crookshank, Miles James	Santa Ana	Econ.70-58+35	DeltaUpsilon-*1353*
Cross, Marion Francel	Ogden, Utah	Ed.G.A.125+16	Gam.PhiBeta-*1337*
[8]Crothers,HerbertWilliam	Aberdeen,Wn.	LD 10+6	226 Encina-*1174*
[25]Crow, Mildred Berenice	Marion, Ohio	LD 13-31+43	262 Roble-*1288*

[4]Crozier, Wilmot F. A.B., Northwestern, 1909	Osceola, Neb.	Educ. gr.	146 Pope-p
[1]Crum, Paul Milton	La Moure, N.D.	Phys. ‡ 11–8	440 Cowper
[12]Crump, Ross Owen	San Jose	Econ. 164+229	R2, Box 330, sj
Cuddeback, Murray William	Monolith	Econ. 133+11	Zeta Psi-*B*
Cuenod, Charles Branch	Los Angeles	LD 69–15	Kappa Alpha-*1356*
[28]Cullinan, Laurette G.	San Francisco	Hist. 111·16+16	*332* Roble-*564*
[5]Culp, George Joseph	Pacific Grove	Chem. 7·168+156	P.O.Bldg.,M-*150*
[34]Cummings, Beulah Mary	Los Altos	LD 42·57+35	Los Altos-la
Cummings, Donald Childs	Taft	Econ. ‡ 23–34	Park Lane, MP-*588*
[12]Cummings, Lloyd Franklin	Ferndale	Econ. 106+123	231 Branner-*1066*
Cummings, Robert Henry	Taft	LD 90+24	Delta Tau Delta-*1363*
Cummins, John Ferdinand	LeGrand	LD 46+22	23 Encina-*1581*
[4]Cunningham, Mary E. A.B., San Jose State Teachers College, 1924	Boulder Creek	Educ. gr.	Menlo Heights-*1593*
[4]Cureton, Edward Eugene A.B., San Jose State Teachers College, 1925	San Jose	Educ. gr.	360 N. 16th, SJ-sj
[4]Curtin, Mary A.	Cambridge, Mass.	Sch.Ed. ‡	255 Roble
[4]Curtis, Dwight Wesley A.B., College of the Pacific, 1923	Lodi	Hist. gr.	839 Bryant-p
Curtner, Alberta A.B., Stanford, 1925	San Jose	Fr. 62·120+37	349 Roble-*1256*
Curtner, Helen Lewis	Warm Springs	Ed. G.A. 31·87+6	348 Roble
Cypher, S. Clark	Arcadia	Law 110+37	Delta Chi-*1304*
Dahler, Dorothy Inez A.B., Stanford, 1925	Woodland	Math. 182+98	203 Roble-*714*
Dallas, Donald A. A.B., Stanford, 1923	Redlands	Med. gr.	2286 Jackson, SF-sf
Dallavo, John W.	Grand Rapids, Mich.	Law ‡ 34–22	550 Kingsley-*776*
[12]Daly, John Joseph	Salt Lake City,Utah	LD 58–24	Theta Xi-*1355*
[3]von Damm, Helene	San Mateo	LD 14+5	117 Roble
[5]Dana, Charles A.	Mayfield	Math. 98·69+53	346 Harvard, M
[124]D'Andrea, Martin Angelo	Stan. Univ.	Hist. 10·109+27	314 Toyon
Danford, William Harwood	Kauai, T.H.	LD 41+2	406 Encina-*1270*
[4]Danforth, May Eleanor A.B., San Jose State Teachers College, 1924	Sacramento	Educ. gr.	111 Roble
Daniels, Albert C.	Pueblo, Colo.	LD 50+40	357 Encina
Daniels, J. Quincy A., Jr. A.B., California, 1921	Portland, Ore.	Med. gr.	2436 Clay, SF-sf
[224]Dannenbaum, Mildred D. A.B., Stanford, 1924	Parsons,Kans.	Sch. Ed. gr.	Kingscote
[1]Darling, Grace A.B., Stanford, 1925	Salt Lake City, Utah	Hist. 95·87+2	Cowper Ct.-*1223*
[4]Darling, James G. B.S., Aberdeen, 1908	Santa Cruz	Sch. Ed. gr.	*22* Alvarado
Darling, Velva G. A.B., Stanford, 1925	San Luis Obispo	Eng.-Jn.40·140+36	K.Al.The.-*1336*
[4]Dary, Bernice A.B., Kansas, 1922	Long Beach	Pol. S. gr.	146 Roble
Daugherty, Lyman H. A.B., Stanford, 1924, A.M., 1925	Robinson, Ill.	Bot. gr.	801 Waverley-p
Daves, Delmer Lawrence	Los Angeles	Law 112+84	Sig.AlphaEps.-*1305*
[5]David, Leon Thomas A.B., Stanford, 1924	Vallejo	Law gr.	201 Union-*1735*
David, Nelson Binkley	Alhambra	LD 76+73	Phi Delta Theta-*1334*

Davidson, Eleanor	San Leandro	LD 48+65	259 Roble
Davidson, Helen P.	New Westminster, B.C.	Psych. gr.	Manzanita
A.B., Stanford, 1924, A.M., 1925			
Davidson, Horace Hodge	Berkeley	LD 48–19	Kappa Alpha-*1356*
Davidson, James R.	Los Angeles	LD 47·45+32	231 Encina-*1457*
Davidson, William O.	Santa Barbara	Econ. 182+168	Delta Upsilon-*1353*
A.B., Stanford, 1925			
Davies, David Lloyd	Portland, Ore.	Law 188+184	43 Sequoia-*976*
A.B., Stanford, 1925			
Davies, George Arthur, Jr.	Los Angeles	Econ. 98·83+14	Kap. Alpha-*1356*
A.B., Stanford, 1925			
[4]Davies, Robert Castle	Los Angeles	Span. ‡	Kappa Alpha-*1356*
[4]Davies, Aubrey Milton	Portland, Ore.	Chem. ‡	239 Toyon
Davis, Burt Lincoln, Jr.	San Francisco	LD 47+24	525 University-p
Davis, Gregory Hensley	Napa	LD 41–11	433 Encina-*899*
[4]Davis, Hazel	Santa Maria	LD sp.	Roble
Davis, Paul Cannell	Cleveland, Ohio	LD 97+87	6 Alvarado
Davis, Rudyard Elliot	Minneapolis, Minn.	Law gr.	1312 Cowper-p
A.B., Minnesota, 1921			
Davis, Ruth Carol	Palo Alto	Soc. S. 37·143+98	202 Roble-*1275*
A.B., Stanford, 1925			
Davis, Stanley Spencer	Westwood	LD 39+18	109 Encina-*2014*
[4]Davis, Verna Belle	Tempe, Ariz.	Sch. Ed. gr.	Roble
A.B., Colorado State Teachers College, 1922			
[1]Davis, Victor DeWitt	Stanford Univ.	E.E. 10·94+50	Substation-*675*
[5]Davis, Wilfrid L.	Los Angeles	LD 85+14	10 Cabrillo-*1468*
[1]Davison, Malcolm	Ontario	Math. 90·100+32	331 Encina-*1149*
A.B., Stanford, 1925			
Davison, Wesley Brewster	Victoria, B.C.	Econ. 67·48+55	Al.Sig.Phi-*1357*
[4]Dawes, Claire C. P.	Los Angeles	Ed. G.A. ‡	214 Roble
Dawes, Rupert Truman	Santa Ana	Econ. 180+15	Theta Delta Chi-*T*
A.B., Stanford, 1925			
Dawson, Carlton W.	Los Altos	LD 48+40	Los Altos-la
Dawson, Clarence H.	Salt Lake City, U.	E.E. gr.	40 Sequoia-*705*
A.B., Stanford, 1925			
[124]Day, A. Grove	Baldwin Park	Engl. 122+159	119 Toyon-*1857*
[234]Day, Charles Edward	Salinas	LD 78+5	Matadero, Mayfield
Day, Frank Hogeland	Baldwin Park	LD 50+13	416 Encina-*1857*
[5]Deach, Ivan, Jr.	Escondido	Hist. 170+75	659½ Middlefield-p
Deal, Bonnye Elizabeth	Pasadena	LD 51+77	377 Roble-*1146*
Dearborn, Frances Jane	Santa Barbara	Engl. 75·66+64	Del.Del.Del.-*1325*
Deffebach, Charles A.	Los Angeles	Law gr.	Kappa Sigma-*1326*
A.B., Stanford, 1923			
DeFrees, John Thomas	Burlingame	LD 58–3	Phi Kappa Sigma-*1306*
Deimling, Persana Lovell	Santa Ana	Germ. 90·44+42	214 Roble-*46*
[5]Dekker, William Nicholas	San Francisco	Engl. 90+12	332 Union-*1648*
[4]Delamarter, Frank A.	Stockton	LD ‡ 31+31	Menlo Heights
[4]Delatour, Helen	Santa Ana	LD ‡	170 Roble
[12]Delkin, James Ladd	Las Vegas, Nev.	Pol. S. gr.	514 Encina-*915*
A.B., Stanford, 1925			
Dellepiane, Henry Carl	San Francisco	Chem. gr.	Alexandria Hotel-p
A.B., Stanford, 1924, Engineer, 1925			
[4]Del Mutolo, Marsino G.	San Jose	Law ‡	696 Auzerais, SJ-sj
[4]Dement, Alice Louise	Myrtle Point, Ore.	Sch. Ed. gr.	342 Roble
A.B., Stanford, 1922, A.M., 1923			

Dennis, Charles Milroy — Los Angeles — LD 34–29 — Alpha Delta Phi-*J*
Denny, Mary Carson — Los Altos — LD 40+12 — 176 Roble-*1995*
Desimone, Leon Oliver — Downey — Pre-Cl.135·48+32 — 27 Sequoia-*1834*
A.B., Stanford, 1925
[4]Desmond, Harriet May — Lawrence, Mass. — LD ‡ — 222 Roble-*1129*
[4]De Sombre, William Ernest — Anaheim — Educ. gr. — 224 Union
Ph.B., Chicago, 1902
[5]Detrick, Foster Blake — Palo Alto — LD 56+0 — 1027 Waverley-*1947*
[2]Detrick, Lawrence Everett — Bishop — Anat. gr. — 502 Encina
A.B., Stanford, 1924
[1]DeTuncq, Harold Rief — Palo Alto — LD 66–15 — 2361 Middlefield-p
[23]Detzer, Stephen — Alta Vista — C.E. 109·26–5 — 113 Toyon-*1*
[5]Devlin, Hartley William — Los Angeles — Germ. 106+28 — PhiKap.Sigma-*1306*
[5]Dewees, John Malcolm — San Francisco — LD 32–17 — 229 Encina-*2037*
[1]Dexter, Delbert Morgan — Holtville — M.E. ‡ 30–30 — 845 Waverley-p
Dice, Frank Child — Shoshone, Idaho — Econ. 130+38 — Theta Chi-*1383*
[5]Dickenson, Charles W. — Madison, Tenn. — M.E. 10·193+74 — 88 Sequoia-*1924*
Dickey, Robert Bernard — Madera — Econ. 89+1 — Zeta Psi-*B*
[12]Dickey, William James — Madera — Law 180+75 — Zeta Psi-*B*
A.B., Stanford, 1925
[4]Dickinson, M. Virginia — Chicago, Ill. — Engl. gr. — Roble
A.B., Wisconsin, 1915
[34]Diehl, Howard Frederick — Springfield, O. — LD 26·15+8 — Al.Tau Omega-*1384*
Dietrich, Margaret Clara — Los Angeles — Soc. S. 143+139 — Chi Omega-*1386*
Dietrick, Joseph Sampson — Los Angeles — LD 45+13 — 110 Encina-*1127*
[12]Dill, David Bruce — Los Altos — Chem. gr. — Los Altos-la
B.S., Occidental, 1913; A.M., Stanford, 1914, Ph.D., 1925
Dilley, Clark David, Jr. — Hollywood — LD 47+31 — 348 Encina
[4]Dillon, Alice — Oakland — Sch. Educ. gr. — 227 Roble
A.B., Ottawa, 1904; A.M., California, 1922
Dillon, Hazel Bernice — Sacramento — LD 78+36 — Gamma Phi Beta-*1337*
Dills, Leslie Harrison — Yakima, Wn. — Law 182+72 — PhiGammaDelta-*1324*
A.B., Stanford, 1925
Dinsmoor, A. Hale — El Monte — Law 140+73 — 71 Sequoia-*1692*
Dinsmore, W. Treat — Riverside — LD 56·30+5 — 334 Encina-*612*
[5]Ditzler, Frank Wickham — Oakland — Law 136+62 — Chi Psi-*1608*
[12]Dixit, Kanhaiya Lall — India — LD 44–22 — 1615 P.A.Ave., M-*1066*
Doane, Donald Calvin — Palo Alto — LD 34–3 — 217 Encina-*1228*
Doane, Graeme Stewart — So. Pasadena — LD 43+27 — 350 Encina-*2029*
[4]Dobbel, Edith Elizabeth — Palo Alto — Hist. 22·105+48 — 640 Forest-p
Dobbins, Leslie Edwin — Colusa — LD 93+101 — 221 Toyon-*1886*
Dobie, Edith — Stanford Univ. — Hist. gr. — Delta Delta Delta-*1325*
A.B., Syracuse, 1914; A.M., Chicago, 1922
Dobson, George Palmer — San Jose — LD 45+43 — 123 Encina
[5]Dobson, Leonard Garrard — Fresno — Zool. 154+254 — 365 Lincoln-*1468*
Dodd, Onslow Sinclair — Palo Alto — LD 23·46+49 — 1020 Ramona-p
Dodds, Alice — San Jose — Span. 183+130 — Chi Omega-*1386*
A.B., Stanford, 1925
[12]Dodds, Edward Brandon — Oakland — Engl. 73–26 — 659 Middlefield-p
[5]Doe, Lois Ida — Stockton — Psych. 83·36+48 — 169 Roble
[5]Doebler, Rotha Gray — Los Angeles — Sch. Ed. gr. — Madroño
A.B., Stanford, 1925
[23]Doerr, Karl Philip — So. Pasadena — LD 91+71 — DeltaKappaEpsilon-*O*

Dole, Norman Dorset A.B., Stanford, 1925	Palo Alto	C.E. 187+15	535 Fulton-p
Doll, Cecil Thane	Redondo Beach	LD 50+92	20 Encina-*1029*
Dombaugh, Homer Kent	Gilroy	Econ. 120+15	530 Encina
[12]Dorcy, Duncan Birnie	Palo Alto	LD 5–9	Pk. Blvd., M-Box 192, p
Dorcy, John Biddle	Mayfield	LD 63+46	SigmaAlphaEps.-1305
[134]Dorcy, Laurence Holmes	Los Angeles	LD 13–21	SigmaAlphaEps.-*1305*
[4]Doron, Joseph S. A.B., Stanford, 1920	Phoenix, Ariz.	Educ. gr.	Theta Xi-*1355*
[13]Dorris, Mildred A.B., Stanford, 1924, A.M., 1925	Phoenix, Ariz.	Math. gr.	AlphaOmicronPi-*1367*
[4]Dorsey, Clyde B.S., Missouri State Normal School, 1917	Monterey	S. Biol. gr.	Monterey-m
Dorsey, Eli Ellis	San Diego	LD 57+32	Theta Delta Chi-*T*
Douglas, Chesley McKinley A.B., Stanford, 1924	San Jose	Law gr.	1101 S. 1st, SJ-sj
[1]Douglas, Elizabeth Ellen A.B., California, 1917	Berkeley	Sch. Ed. gr.	157 Bryant-p
[4]Douglass, Harl Roy B.S., Missouri, 1915, A.M., 1921	Eugene, Ore.	Educ. gr.	Sand Hill Road
[4]Douglass, Sherman A.B., Colorado State Teachers College, 1922	Huntington Park	Educ. gr.	Union
Dow, Kenneth Adams	Redlands	LD 35+0	130 Encina-*1240*
Downer, Edward M., Jr.	Pinole	LD 11·82+30	Theta Delta Chi-*T*
Downing, F. Harold A.B., Stanford, 1925	Fresno	Pre-Clin. 101·89+61	229 Union
[34]Downs, Josephine Lorene A.B., Stanford, 1922	Los Angeles	Span. gr.	251 Roble
Doyle, Margaret Antonia	Menlo Park	LD 74+52	Menlo Park-mp
[5]Doyle, Virginia	Fresno	Phil. 24·99+48	Roble-*1332*
Dozier, Dave Ford A.B., Stanford, 1924	Susanville	Med. gr.	2286 Jackson, SF-sf
Drake, Raymond George	Long Beach	LD 45+11	407 Cowper-p
Drake, Thomas E.	Palo Alto	LD 49+79	604 Gilman-p
Draper, Edward Murray	San Bernardino	LD 45+50	201 Encina-*1464*
[3]Draper, Fred Douglas	Mt. Lakes, N.J.	Chem. 142–10	Delta Tau Delta
[5]Draper, Ralph Clayton	Palo Alto	Econ. 125+55	Zeta Psi-*B*
[4]Dressler, Olie Gaylon A.B., Emporia, 1914	Los Angeles	Chem. gr.	310 Union
Drew, Harvey Linford A.B., Stanford, 1925	Pasadena	Geol. 189+46	Theta Xi
Drew, Viva MacArthur	San Francisco	LD 90+27	Alpha Phi-*1387*
[1]Driscoll, John Austin A.B., Stanford, 1925	New York, N.Y.	Econ. 180+101	PhiDel.Theta-*1334*
[4]van Druten, Norma T. J., A.B., College of the Pacific, 1924	Los Gatos	Educ. gr.	Roble
[1]Dryden, Horace Walter	Concord	LD 34·95+18	Sigma Chi-*628*
DuBois, Lloyd K., Jr. A.B., Stanford, 1925	Vancouver, Wn.	Econ. 185+90	109 Branner
Duckett, Harold Leslie	Los Angeles	LD 32–14	418 Encina
[4]Duckett, Mary Tabiola	Oakland	LD	362 Roble
Dulin, Harry Lewis	Covina	LD 84–8	300 Toyon-*I*
[1]Dunbar, Earl Meadow A.B., Wooster, 1921	Palo Alto	Law gr.	14 Union
[23]Dunbar, W. H. Kruger	Alameda	LD 108+4	Chi Psi-*N*

[4]Duncan, Mildred Lillian A.B., Stanford, 1925	Oroville	LD ‡	176 Roble
Duncan, Philip C.	Virginia City, Mont.	LD 90+43	62 Sequoia
[5]Duncan, Robert Cahoone	Red Bluff	LD 85–4	DeltaKappaEpsilon-*O*
[1]Duncan, W. Bryan A.B., Stanford, 1925	Fresno	M.E. 185+186	Lobata Lodge-*4*
Duncombe, Arthur G.	Pasadena	Econ. 42·87+27	213 Union-*15*
[124]Dunfee, Albert Moores	Oakland	LD 76+64	AlphaKap.Lambda-*658*
Dungan, Jack M.	Exeter	Econ. ‡ 47–8	Kappa Sigma-*1326*
Dungan, Mary Virginia A.B., Stanford, 1925	Exeter	Hist. 66·114+122	AlphaOmicronPi
Duniway, John C. A.B., Stanford, 1925	Northfield, Minn.	Law 135·47+56	201 Union-*65*
[124]Dunlop, Rachel Thayer	Hartford,Conn.	Engl. 22·133+158	Roble
[5]Dunn, Ailsa Livingston	San Francisco	LD 65–15	Alpha Phi-*1387*
[3]Dunn, Frank McAllister	San Francisco	LD 15+8	*226* Encina
[4]Dunn, Jack	St. Paul, Minn.	Engl. ‡	Sigma Alpha Epsilon
Dunn, William Lee	San Francisco	LD 11–32	140 Encina-*1473*
[1]Dunne, Gene Joseph	Santa Barbara	LD 6–12	105 Encina
Dunnigan, William	Anaconda, Mont.	Econ. 90·45+36	405 Encina-*1706*
[4]Dunning, Marilla Caroline B.S., Oregon Agricultural, 1919	Stanfield, Ore.	Sch. Ed. gr.	Roble
DuPrau, James Bernard A.B., Stanford, 1925	Palo Alto	Econ. 135·48+23	1004 Emerson-p
[2]Durand, Harlan John	La Canada	LD 41+21	841 Bryant-p
[1]Durant, Raymond Case A.B., Stanford, 1923, Engineer, 1925	Pasadena	M.E. gr.	548 Encina
[4]Durfey, Janette	Fresno	LD ‡	300 Roble
[5]Durston, Wayne Alvin A.B., Stanford, 1924, A.M., 1925	Lodi	S. Biol. gr.	19 Alvarado-*563*
[4]Dutton, Helen Gertrude	Long Beach	Econ. ‡	Palm Court Apts.-p
[5]Dutton, John Ellis	Long Beach	Econ. 45·86+2	Palm Ct. Apts.-p
Duval, Eugene Seymour	Ventura	LD 44+43	345 Encina-*1843*
[5]Duval, Richard Raoul	Paris, France	LD 12·37+15	*323* Union
[1]Dwight, Herbert McGilvray A.B., Stanford, 1925	Eureka	M.E. 190+224	Sigma Nu-*1385*
[4]Dyche, Schubert Reilly	Bozeman, Mont.	LD sp.	436 Hamilton-p
[4]Dye, Everette Lee	Plainview, Tex.	LD ‡	5 Union
Dyer, Guy Kimball	Auburn	LD 41+31	349 Encina-*991*
[4]Dykmans, Wilhelmina A.B., California, 1922	San Jose	Engl. gr.	*227* So. 4th, SJ-sj
[4]Dysinger, Earl Scott A.B., Stanford, 1917	Fullerton	Econ. gr.	Mayfield-p
[23]Eakin, Elizabeth A.B., Pomona, 1922	Claremont	Span. gr.	Manzanita
Eakin, Margaret Adelaide A.B., Pomona, 1922; A.M., Stanford, 1925	Berkeley	Med. gr.	2186 California, SF-sf
Eardley, George Gillespie	San Jose	Econ. 90·40–3	Alpha Sigma Phi
[5]Eardley, Wendell Arthur	Bakersfield	Min. 166+55	223 Toyon-*602*
[124]Earle, Margaret Mae	Palo Alto	Ed. G.A. 132+18	619 Webster-p
Easterling, Catherine A.B., Mills, 1924	Huntington Park	Sch. Ed. gr.	1055 Cowper-p
[1]Eaton, Donald K. A.B., Harvard, 1923	Pittsburgh, Pa.	Law gr.	555 Waverley-p
Eaton, Evelyn A.B., Stanford, 1925	Watsonville	Engl. 107·80+65	Pi Beta Phi-*1332*

[5]Eaton, Monroe Davis	Stockton	LD 96+155	215 Branner-*1031*
Eaton, Thomas Treadwell	Greeley, Colo.	LD 48+21	122 Encina
[5]Ebright, Miriam	San Francisco	Engl.-Jn.8·158+61	Kap.Al.Th.-*1336*
[13]Eckart,Charles Gorham	Honolulu, T.H.	LD 50–20	Theta Delta Chi-*T*
Eckhoff, Robert Holland	San Rafael	Chem. 137+102	PhiKap.Sig.-*1306*
[4]Eddy, Ada McQuarry A.B., Baylor, 1916	Elmira	Sch. Ed. gr.	Sigma Kappa
[4]Edgar, Bert A.	Tucson, Ariz.	LD ‡ 27+1	138 Toyon
[4]Edington, Anna Leta B.S., Oregon Agricultural, 1925	Corvallis, Ore.	Engl. gr.	Roble
[4]Edlin, Raymond	China	LD 60–25	132 Toyon-*64*
Edmondson, Horace Leaton	Burbank	Pol. S. 121+13	208 Toyon-*2043*
[5]Edson, Charles Farwell, Jr.	Los Angeles	LD 48+13	28 Alvarado
Edwards, Grace B.S., Earlham, 1920	Seattle, Wn.	Med. gr.	Manzanita-*1229*
[3]Edwards, Mary Haven	Alameda	LD 14+8	243 Roble
Edwards, Muriel E. A.B., Stanford, 1921	Wallace, Ida.	Med. gr.	2120 California, SF-sf
[4]Eells, Walter Crosby A.B., Whitman, 1908; A.M., Chicago, 1911	Walla Walla, Wn.	Educ. gr.	Mayfield
[4]Ehrgott, Katherine Field	San Francisco	LD ‡	1020 Broadway, SF-sf
Ehrsam,David Mulvane	Enterprise,Kans.	LD 44+26	116 Encina
[4]Eichelberger, Charles E. B.S., Idaho, 1907; A.M., Stanford, 1922	Los Gatos	Educ. gr.	Los Gatos-lg
Eisman, George Philip	Portland, Ore.	LD 46+21	409 Encina-1973
[4]Eldred, Fred H. B.S., Occidental, 1914; A.M., Stanford, 1916	El Centro	Chem. gr.	460 Oberlin, CT
[23]Elizalde, Fred A.	San Francisco	LD 12–26	306 Encina
Eller, Charles Howe	Albuquerque, N.M.	Pre-Med 136+57	Theta Xi-*1355*
[4]Ellestad, Theodore A. B.S., Oregon Agricultural, 1916	Coalinga	Sch. Ed. gr.	347 Ramona-p
[5]Elliott, David Kenneth	Los Angeles	Econ.63·55–1	Phi Gam. Delta-*1324*
Elliott, Ellen Brailsford A.B., Stanford, 1925	Hagerman, Ida.	Hist. 58·134+217	301 Roble-*1216*
[1]Elliott, Elmer Ellsworth A.B., Stanford, 1925	Los Angeles	Econ. 180+9	Phi Gam.Delta-*1324*
[1]Elliott, Harold Farley A.B., Stanford, 1916.	Palo Alto	E.E. gr.	1320 Webster-p
[1]Ellis, Ralph Victor A.B., Stanford, 1924, A.M., 1925	Springfield, Mo.	S. Biol. gr.	445 Encina
Ellsworth, George Inness	Grass Valley	LD 29–8	45 Encina
Elms, Myron Kenneth A.B., Stanford, 1925	Los Angeles	Econ. 180+83	529 Encina-*901*
[1]Elvey, Donald Mitchell	Cupertino	Engl. 94–4	Cupertino-c
Ely, Northcutt A.B., Stanford, 1924	Phoenix, Ariz.	Law gr.	Sigma Nu-*1385*
Emerson, Kenmore Leon A.B., Stanford, 1925	Brattleboro, Vt.	Econ. 79·102+41	BetaThetaPi-*1335*
[4]Emerson, Wallace A.B., Huron, 1916; A.M., Stanford, 1923	Los Angeles	Educ. gr.	801 Waverley-p
[5]Emmons, Robert Edmund	Tucson, Ariz.	Econ. 92·79+60	656 Bryant-p
Empey, Lucas W. A.B., Stanford, 1924	San Jose	Med. gr.	2264 California, SF-sf
Enderud, Alice Oline	Portland, Ore.	LD 92+104	Sigma Kappa-*1327*
Enderud, William Louis	Portland, Ore.	Econ. 137+38	80 Sequoia-*1532*

[4]Endicott, Gilbert Robinson	Long Beach	LD ‡	Phi Sigma Kappa-*538*
Engelcke, H. Paul	Cupertino	Chem. 146+144	909 Alma-p
[234]Engelhardt, Lloyd F.	Hartford, S.D.	LD 28+22	206 Union-*836*
[4]England, William H., Jr.	PoncaCity, Okla.	LD ‡	Union
[124]Engle, Earl Theron	Mayfield	Anat. gr.	Mayfield-m
A.B., Nebraska Wesleyan, 1921; A.M., Colorado, 1924			
English, Harlow DeWolfe, Jr.	Lindsay	M.E. 185+85	210 Toyon-*892*
A.B., Stanford, 1925			
Engstrum, Frederick E., Jr.	Los Angeles	LD 91+109	Phi Kappa Psi-*1333*
[5]Engwicht, Harry	San Jose	Phys. 91·37+13	405 N. 3rd, SJ-sj
Enos, Lawrence Marcel	San Luis Obispo	Law gr.	65 Sequoia-*616*
A.B., Stanford, 1924			
Enright, James Robert	Santa Cruz	Med. gr.	2211 California, SF-sf
A.B., Stanford, 1923			
Erich, Reuben Robert	San Jose	M.E. 91–6	553 Encina
Erickson, Elvira Alida	Weed	LD 52+70	371 Roble-*684*
[34]Errickson, Vance Bryant	Helena, Mont.	Chem. gr.	118 Toyon-*1246*
A.B., Stanford, 1924			
Erskine, Helen Margaret	Hollywood	Hist.10·131+241	Del.Del.Del.-*1325*
Erwin, Joseph Emmons	Kinsley, Kans.	Econ. 90·92+36	107 Branner-*1845*
A.B., Stanford, 1925			
[1]Escalon, Pedro José	Salvador, C.A.	LD	430 Encina
Eshleman, Wallace Crofoot	Santa Cruz	LD 126+63	241 Branner-*H2*
[5]Espinosa, Aurelio Macedonio, Jr.	Stan. U.	Span. 89+132	16 Salvatierra-*1555*
[4]Espinosa, Margarita	Stanford Univ.	S. Biol. ‡	16 Salvatierra-*1555*
Espy, William Compton, Jr.	Palo Alto	Econ. 143+74	1052 High-p
[4]Estus, Mildred Margaret	Palo Alto	Cl. Lit. gr.	651 Waverley-p
A.B., Stanford, 1922, A.M., 1923			
[5]Eubanks, Barbara Ann	Palo Alto	LD 11·96+157	867 Lincoln-p
[4]Eustace, Marie Genevieve	Palo Alto	Germ. gr.	1001 Ramona-p
A.B., Stanford, 1914, A.M., 1916.			
Eva, James Meredith	San Francisco	Hist. 150+29	PhiSigmaKappa-*538*
[23]Evans, Arthur Kent	Long Beach	LD 29+5	424 Encina
Evans, Charles Orrick	Riverside	Econ. 145+103	246 Toyon-*633*
Evans, David LeCount	Palo Alto	LD 91+35	555 Waverley-*JJ*
[5]Evans, Luther Harris	Phelan, Tex.	Pol. S. gr.	334 Union-*1703*
A.B., Texas, 1923, A.M., 1924			
Evans, Wardwell Devore	San Bernardino	Law gr.	231 Union-*858*
A.B., Stanford, 1923			
Evans, Warren Raymond	Shelby, Mont.	LD 60+22	360 Bryant-p
Evans, Wesley D.	Salinas	LD 87–15	21 Toyon-*516*
[1]Evenson, Justin C.	Clatskanie, Ore.	LD 3–15	415 Encina
Everett, Lyle Benton	Santa Rosa	LD 41+14	402 Encina
Evers, Wendell H.	Biggs	Hist. 175+23	24 Sequoia
Ewert, William Van Velsor	Long Beach	Hist. 133+70	306 Toyon-*H2*
Fagg, Charles Edward	Riverside	Law 142+18	248 Toyon-*1167*
Fain, Norman William	Prescott, Ariz.	LD 42+11	415 Encina
Fain, William Hart	Auburn	LD 145+71	246 Toyon-*654*
[8]Fair, Dorothy Annette	San Jose	S. Biol. 80·30+21	245 Roble
Fairchild, Paul Lee	Santa Cruz	Pol. S. 136+32	Alpha Del. Phi-*J*
[5]Falkner, Helen Spalding	Palo Alto	Engl. 123·58+57	475 Forest-p
A.B., Stanford, 1925			
[7]Fall, David A.	Portland, Ore.	Law ‡ 72+1	Sigma Chi-*628*

[4]Falvey, Dolorita Jean	San Mateo	LD ‡	818 B St., SM-sm
Fang, Roland Chung A.B., Stanford, 1925	China	Engl. 90·91+13	Chinese Club-*1136*
Farewell, Cyrus	Whittier	LD 45+37	137 Encina-*1801*
[1]Farish, Linn Markley A.B., Stanford, 1925	Woodland	Geol. 186+84	Kappa Sigma-*1326*
Farley, Raymond Mervy A.B., Stanford, 1925	San Francisco	Law gr.	526 Encina-*605*
Farmer, Nancy Chloe	Alhambra	LD 45–3	260 Roble-*2046*
[5]Farmin, Rollin	Sandpoint, Ida.	Geol. 92·98+36	64 Sequoia-*1404*
[1]Farnham, Albert Thomas A.B., Southern California, 1908	Arthur, N.D.	Chem. gr.	523 Cowper-p
Farr, Hannon Barker	San Francisco	LD 87+5	Delta Tau Delta-*1363*
[3]Farr, Marian	Piedmont	LD 61+22	278 Roble
Farr, Walter Harold A.B., Stanford, 1924	Campbell	Med. gr.	2264 California, SF-sf
Farrand, Knox	Los Angeles	LD 45+38	46 Encina-*1971*
Farwell, Felix Howes	Los Angeles	Econ. 40·78+0	Al.TauOmega-*2049*
Fassoth, Paul Decker	Palo Alto	LD 73–7	Chi Psi-*N*
[12]Faulkner, William Kenneth	Los Angeles	LD 21–22	140 Encina-*1803*
Fay, Kenyon Tudor A.B., Stanford, 1925	Los Angeles	Econ. 51·131+40	330 Union-*723*
Fay, Sheldon Paige	Los Angeles	Econ. 117+81	509 Encina-*723*
[4]Fazen, Gladys Capitola A.B., Milwaukee-Downer, 1924	Racine, Wis.	Hist. gr.	182 Roble
[134]Fearing, Franklin Smith A.B., Stanford, 1923, A.M., 1924	Palo Alto	Psych. gr.	177 Tasso-p
[4]Fedderson, Helen Gage B.S., Iowa State College of Agriculture, 1913	Kellogg, Idaho	Sch. Ed. gr.	180 Roble
Fee, Doris Parker	Los Altos	LD 96+96	325 Roble
Feely, Glenn Dixon	Bakersfield	LD 40·45+27	31 Encina
Feldman, Helen Consuelo A.B., Hunter, 1920	Stan. Univ.	Engl. gr.	Madroño-*133*
Feliz, Frank Everett	Santa Rosa	LD 92+16	Phi Gamma Delta-*1324*
[4]Fenn, John Lee	Fresno	LD sp.	520 Cowper-p
[5]Fennemore, Richard M.	Phoenix, Ariz.	Law 126+60	Kappa Alpha-*1356*
[4]Fenner, Beatrice Alethea A.B., Stanford, 1922, A.M., 1923	Palo Alto	Math. gr.	1010 Forest Court-p
Fenner, Wilma Eda	Palo Alto	LD 92+123	1010 Forest Court-p
Fenton, Norman A.M., Harvard, 1918	Palo Alto	Psych. gr.	935 Boyce-p
[1]Fenwick, Barbara Keese	San Francisco	LD 56+25	234 Roble
Ferguson, John A.B., Toronto, 1914; A.M., Stanford, 1925	Stanford Univ.	Phyl. gr.	15 Union-*1786*
Ferguson, Kenneth L.	Berkeley	Law 163+78	AlphaSigmaPhi-*1357*
[5]Ferguson, Nita A.B., Kansas State Teachers College, 1919	Independence, Kans.	Hist. gr.	Manzanita-*905*
[5]Fernelius, Willis Conard	Ogden, U.	Chem.98·55+79	19Salvatierra-*1931*
[5]Ferrando, Aldo	Butte, Mont.	Geol. 42·138+40	204 Union
Ferrante, Anthony A. A.B., Stanford, 1925	San Francisco	Pre-Clin. 90·96+85	136 Branner-*44*
Ferrante, Peter Joseph	Monterey	LD 80+43	209 Toyon-*44*
Feusier, Cecile Marie	San Francisco	Engl. 143+85	Pi Beta Phi-*1332*
Fewel, Richard William	Los Angeles	Econ. 78·64+4	206 Union-*653*
[5]Field, John, II A.B., Stanford, 1922, A.M., 1924	Palo Alto	Chem. gr.	1636 Emerson-p

[3,4]Figel, Clifford Godchaux	San Francisco	LD 13–2	238 Toyon
[5]Finch, Vincent W.	Bakersfield	Min. 90·84+63	Theta Xi-*1355*
[12]Findley, Frank Miller A.B., Stanford, 1925	Palo Alto	Econ. 17·154+41	Zeta Psi-*B*
[4]Finger, Clyde B.S., California, 1907	Palo Alto	Educ. gr.	335 Tennyson-p
[4]Finger, Jennie B.S., California, 1907	Palo Alto	Chem. gr.	335 Tennyson-p
Fischer, Virginia Frances	Oakland	LD 48+20	250 Roble-*1616*
[1]Fisher, Jerome Layton Ph.B., Brown, 1923	Providence, R.I.	Engl. gr.	545 Encina
[3]Fitkin, Mary-Louise	Brooklyn, N.Y.	LD 15+25	*266* Roble
Fitzhugh, Anna Thornton A.B., Stanford, 1925	Los Angeles	Engl. 183+9	Alph.Omic.Pi-*1367*
Fitzhugh, William McP., Jr.	Menlo Park	LD sp. 76–1	230 Branner-BxG,mp
Fitzsimons, Harold I.	San Francisco	Pre-Med. 90·34–1	578University-p
Flagler, Paul	Wimbledon, N.D.	Econ. 121+16	509 Encina
Flaherty, Thomas Chauncey	Riverside	LD 46+17	334 Encina-*1905*
[5]Flanagan, Michael A.B., National University of Ireland, 1912; A.M., Stanford, 1925	Oakland	Cl. Lit. gr.	142 Toyon
[4]Fleishhacker, Mortimer	Redwood City	LD	Redwood City-rc
[4]Fleming, Paul A.B., California, 1913	Oakland	Sch. Ed. gr.	466 Ruthven-p
[12]Fleming, Robert Carlile A.B., Stanford, 1924	Lincoln	Law gr.	Theta Chi-*1383*
Flesher, Beatrice Elise	Denver, Colo.	Engl.-Jn. 153+111	*220* Roble-*667*
Fletcher, Lawrence Salmons	San Diego	LD 73+43	Phi Delta Theta-*1334*
Flood, Henry Lee	Ponca City, Okla.	LD 41–1	324 Encina-*1412*
[12]Flood, Raymond Oliver A.B., Stanford, 1925	San Francisco	M.E. 198+94	Phi Del.Theta-*1334*
Flory, John Winston	Pasadena	LD 45+38	248 Encina-*1203*
[4]Flowers, Evelyn Grace A.B., Stanford, 1920	Pasadena	Educ. gr.	Phi Gamma Delta
Fogg, Philip Shearer A.B., Stanford, 1925	Palo Alto	Econ. 180+253	525 West-p
[4]Foley, Helen Mary Ph.B., Loyola, 1924	Menlo Park	Cl. Lit. gr.	Menlo Park-mp
Foley, John Andrew	San Francisco	LD 31–28	423 Encina-*1855*
[1]Foley, Mary A.B., Sacred Heart, 1922; A.M., Stanford, 1925	Menlo Park	Cl. Lit. gr.	Menlo Park-mp
[5]Follansbee, George S., Jr.	Los Angeles	Geol. 166+136	Theta Xi-*1355*
Follansbee, Ruth A.B., Mills, 1924	Los Angeles	Sch. Ed. gr.	Madroño-*2016*
Fontaine, George Kingdon	San Jose	LD 47·56+3	308 Encina
[1]deFont-Reaulx,Henry	Guadalajara,Mex.	LD 14–16	*32* Encina
Foote, Hannah Frances	Modesto	Span. 90·47+67	281 Roble
[3]Force, Lilian L.	Oakland	LD 45·16+9	311 Roble-*1210*
[234]Forch, Dorothy Lucille A.B., Stanford, 1925	Nampa, Ida.	Engl. gr.	Madroño
Ford, Evert Henry A.B., Stanford, 1925	Modesto	M.E. 90·99+33	48 Sequoia-*1487*
[1]Ford, Harriet Allena	Los Angeles	LD 61+38	Kap. Kappa Gam.-*1354*
Ford, John Joseph	Los Angeles	LD 46+20	302 Encina-*1816*
[12]Ford, Robert E.	Auburn	LD 21+1	235 Encina-*682*
[18]Forderer, Eleanor K.	Burlingame	Ed. G.A. 49·78+29	Al.Om.Pi-*1367*

Fordyce, Dorothy E.	Sunnyside, Wn.	LD 46+17	178 Roble-*1301*
[23]Forker, Floyd Wilson	Los Angeles	Econ. 98+5	201 Branner-*1044*
Forker, Paul Welch	Los Angeles	LD 46+21	327 Encina-*1044*
[1]Forrest, Llewellyn Edwin	San Francisco	LD 46–23	Beta Theta Pi-*1035*
Forster, Albert E.	Stanford Univ.	Min. gr.	12 Union-*1355*
A.B., Stanford, 1923, Engineer, 1925			
Forster, Donald F.	Watsonville	Pre-Med.13·176+38	540Encina-*972*
Forsyth, George T., Jr.	Portland, Ore.	C.E. 177+15	219 Toyon-*1855*
Fort, Lois	Stanford Univ.	Phil. 12·185+128	Kingscote-*537*
A.B., Stanford, 1925			
Fort, William A.	Los Angeles	LD 44+19	432 Encina-*537*
[5]Fortine, Dwight Hugh	Long Beach	Min. 139+80	81 Sequoia-*1693*
Foster, Frances	Stanford Univ.	S. Biol. 35·145+114	*22* Lasuen-*1386*
A.B., Stanford, 1925			
[4]Foster, Homer Peter	Anaheim	Pol. S. gr.	260 Toyon
B.S., State College of Washington, 1914			
Fouch, Florence Louisa	Maxwell	LD 49+98	*372* Roble-*939*
Foulke, Edson Louis, Jr.	Yreka	LD 42+3	359 Encina-*1617*
[4]Fouts, Wesley Ross	Rialto	Educ. gr.	942 Scott-p
A.B., Simpson, 1915			
Fowler, Robert Butler	Modesto	Law ‡ 40–11	236 Branner-*X*
Fowler, Ruth Miriam	San Jose	Econ. gr.	Manzanita-*90*
A.B., College of the Pacific, 1924			
[1]Fox, Charles Oscar	Needles	LD 4–12	347 Encina-*1923*
[4]Fox, Daniel Scott	Pasadena	Pre-Med. gr.	1533 Waverley-p
B.S., Cornell, 1913, Ph.D., 1919			
[4]Fox, Dorothea B.	San Diego	S. Biol. ‡	Asilomar-a
[23]Fox, Irene Henrietta	Palo Alto	LD 42+75	445 Hamilton-p
[5]Fox, Lois Ione	Palo Alto	Chem. 142+169	1101 Waverley-p
Fox, Lucile Jane	Santa Barbara	Cl. Lit. gr.	Madroño-*734*
A.B., Sacred Heart, 1924; A.M., Stanford, 1925			
Foye, Charles Edward	San Francisco	Law 183+214	Sigma Nu-*1385*
A.B., Stanford, 1925			
Francis, Cyril Herbrand	Los Angeles	LD 90+78	12 Sequoia-*2005*
[4]Francis, Samuel A. M.	San Mateo	Math. gr.	464 Midway, SM-sm
A.M., California, 1922			
[12]Frank, Eddie	San Francisco	LD 95+6	108 Branner-*80*
Franken, Joseph J.	El Centro	Hist. 90·34+17	36 Sequoia
[1]Franklin, Harvey B.	San Jose	Educ. gr.	251 Singletary, SJ-sj
Ph.B., Chicago, 1911			
[5]Franklin, John Curtis	Stanford Univ.	Phys. 140+204	PhiDel.Theta-*1334*
Fraser, Robert McKibben	Los Angeles	LD 98+92	13 Toyon-*932*
Frasse, Irvin A.	San Jose	Law 154+73	AlphaSigmaPhi-*1357*
[4]Fratis, Sue Louise	Oakland	Educ. ‡	455 Forest-p
Frazier, Alfred Egelmann	Berkeley	LD 86+65	111 Toyon-*1016*
[5]Frazier, Clarence Macky	San Francisco	Econ. 102+0	Phi Kappa Psi-*1333*
Frazier, George Martin	Eagle Rock	Pol. S. 138+91	Delta Chi-*1304*
[3]Fredrickson, Robert Lee	San Francisco	LD 11–6	428 Encina
Freedman, Cecil Louis	San Francisco	LD 96+135	21 Sequoia
[4]Freeman, Chris	Bakersfield	LD ‡	375 Everett-p
[1]Freeman, Fleming F.	Oklahoma City, Okla.	LD 40·66–32	Alpha Sigma Phi
Freeman, Marcus Philip	Alameda	LD 90+19	Theta Xi-*1355*
[5]Freidenrich, David, Jr.	San Francisco	Law 142+19	Sigma Alpha Eps.-*36*

French, David Dye — Pasadena — Law gr. — 235 Embarcadero-*1513*
A.B., Ohio, 1924
[4]French, Delbert Ransom — Palo Alto — Educ. gr. — Palo Alto-p
A.B., Reed, 1915
[3]French, Dorothy Lou — Palo Alto — LD ‡ 14–1 — 521 Addison-p
French, Dorothy May — Los Angeles — LD 46+84 — 112 Roble-*513*
[13]French, Florence Elizabeth — Los Angeles — Hist. 19·127+185 — 114 Roble-*513*
French, Lucy Eleanor — Berkeley — Hyg. gr. — *2236* Summer, B-b
A.B., California, 1923; A.M., Stanford, 1925
[13]French, William O., Jr. — Oakland — Med. gr. — 1518 4th, O-o
A.B., California, 1920; A.M., Stanford, 1923
[4]Frey, Ernest Martin — Upland — Sch. Ed. ‡ — *229* Union
Frick, Madeline — Los Angeles — LD 46+77 — 310 Roble-*674*
Friebel, Helen Mae — Whittier — Hist. 18·162+53 — 212 Roble-*637*
A.B., Stanford, 1925
[5]Friedlander, Richard — San Francisco — Hist. 9·141+131 — 218 Branner-*585*
[1]Frieseke, Herman Carl — Hollywood — LD 13–12 — 348 Encina
Frink, Frederick William — Palo Alto — M.E. 180+201 — 250 Branner
A.B., Stanford, 1925
[1]Frink, Marjorie Mae — Palo Alto — Econ. 90·92+103 — 943 Bryant-p
A.B., Stanford, 1925
[13]Fritschen, H. William — San Francisco — Med. gr. — S.F. Hospital, SF-sf
A.B., Stanford, 1921, M.D., 1925
Fritts, Don E. — Santa Ana — LD 91+33 — Delta Chi-*1304*
[5]Fromberg, Carolyn Frances — San Francisco — Law gr. — 160 Roble
A.B., Mills, 1923, A.M., 1924
[4]Frost, Mattie Eloise — Pleasanton — Engl. ‡ — *282* Roble
[4]Fry, Donald Hume, Jr. — So. Pasadena — LD ‡ — 112 Toyon
[3]Fry, Leland Ray — San Jose — LD 13–1 — 52 S. 12th, SJ-sj
[23]Fry, Marietta — Palo Alto — LD 42+15 — *329* Roble-*1732*
Fry, Orvin Philip — Benicia — LD 124+14 — 106 Branner-*1076*
Frye, Frank A., Jr. — San Diego — Law 141+75 — Phi Kap. Sigma-*1306*
[4]Frye, Frank Brewster — Redlands — LD — 331 Union
Fuendeling, Mervyn Julius — San Francisco — Med. gr. — 536 5th ave., SF-sf
A.B., Stanford, 1924
Fujinaga, Ernest S. — Hakalau, T.H. — Cl. Lit. 180+230 — 2 Alvarado-*1492*
A.B., Stanford, 1925
[5]Fuller, Charles A. — Detroit, Mich. — LD 77·87–4 — Park Lane, MP-*1874*
[24]Fuller, Dana Lloyd — San Francisco — Econ. 126+31 — Delta Kappa Eps.-*O*
[5]Fuller, Helen Baker — Fresno — Sch. Ed. gr. — 250 Roble
A.B., Stanford, 1925
Fuller, Lon Luvois — El Centro — Law gr. — 604 Gilman-*1304*
A.B., Stanford, 1924
Fuller, Roy Richardson — Detroit, Mich. — Econ. 94·92+80 — *226* Union-*1874*
A.B., Stanford, 1925
[5]Fullerton, Dick Phelps, Jr. — San Francisco — E.E. gr. — Beta Theta Pi-*1335*
A.B., Stanford, 1925
Fulmor, Theodore G. — Anaconda, Mont. — LD 23·94+63 — 5 Sequoia
[234]Fulton, Ruth Vivia — Vancouver, B.C. — Chem. gr. — Manzanita-*32*
A.M., British Columbia, 1919
[124]Gage, George Maurice — Calexico — Soc. S. gr. — San Carlos-sc
A.B., Kansas, 1922
Galbraith, Wm. Kenneth — Calumet, Mich. — Law gr. — 9 Union-*1164*
A.B., Michigan, 1923
Gallagher, Florence Rowe — Ely, Nevada — Econ. 64·59+67 — *238* Roble
[23]Gallery, Fred Julius — Oakland — LD 60–7 — 126 Branner

[5]Gallogly, West Heslet	Detroit, Mich.	Law 135·41+4	405 Kipling-p
[3]Galvin, Ruth Carroll	Piedmont	Educ. ‡ 13–3	Roble
[23]Gambell, Charles F.	Stanford Univ.	Econ.45·113+64	Th.Del.Chi-*1828*
Gambell, John Cooper	Willows	LD 43+4	447 Encina-*1121*
Gammon, Cyril	Hood	Ent. 137+51	Sig.AlphaEps.-*1305*
[4]Gamsby, Ruth S.	Palo Alto	Educ. gr.	855 Waverley-p
A.B., Mt. Holyoke, 1906			
Gandy, Robert Arvon	Santa Monica	LD 97+15	140 Branner-*1704*
[2]Garcia, Eligio Doromal	Philippine Is.	Educ. gr.	5 Alvarado-*1258*
A.B., Pomona, 1924			
Gardiner, Laura Isabella	Riverside	LD 9·76+86	Pi Beta Phi-*1332*
Gardner, Edwin Alton	Ventura	LD 32–2	345 Encina-*1842*
[1]Gardner, Edwin Lee	Ventura	LD 40–28	460 Homer-*1511*
Gardner, Kenneth Drake	Oakland	Med. gr.	929 Haight, SF-sf
A.B., Stanford, 1923			
Garibaldi, James Donald	Merced	LD 44+30	402 Encina
[4]Garner, Dwight Allison	Santa Monica	Econ. gr.	
A.B., Stanford, 1923			
[5]Garner, John W.	Astoria, Ore.	Geol. 130·46+31	323 Union
[4]Garrett, James E.	Ada, Okla.	Psych. gr.	10 Salvatierra
Ph.B., Arkansas Conference College, 1908			
[4]Garrett, Pearl Gilbert	Ada, Okla.	LD ‡	10 Salvatierra
Garten, Ruth Muriel	Long Beach	Med. gr.	2217 Buchanan,SF-sf
A.B., Stanford, 1923			
Garthwaite, John Gilbert	Berkeley	LD 79+15	Kappa Alpha-*1356*
[1]Gaskill, Grace H.	Lawrence, Kans.	Ent. gr.	Manzanita
A.B., Kansas, 1921			
Gaspar, Louis A. R.	Honolulu, T.H.	Chem. 155+137	419 Encina-*1108*
[34]Gast, Kathleen Marie	Akron, Ind.	Engl. gr.	19 Salvatierra-*1354*
B.S., Purdue, 1922			
Gates, Dorothy Vernon	Pasadena	LD 45·45+30	274 Roble-*722*
Gates, Tirzah Maris	Pasadena	LD 45+8	276 Roble-*722*
Gaw, Harold P.	San Jose	LD 78+18	9 Sequoia-*914*
[3]Gee, Samuel Chong	Los Angeles	LD 16+10	475 Forest-*1765*
Geisler, Robert Henry	Sunnyvale	LD 91+39	Sunnyvale-s
Gemmell, Margaret E.	Los Angeles	Engl. 110·62+76	Pi Beta Phi-*1332*
Gentry, Harold G.	Redlands	Med. gr.	2263 Sacramento,SF-sf
A.B., Stanford, 1923			
[3]George, Dorothy Kathryn	Los Angeles	Econ. ‡ 10–4	345 Roble
George, George Rodney	San Francisco	LD 85–11	114 Toyon-*I*
[4]Gerhardt, Peter Weston	San Francisco	LD 17–17	Union
[4]Gerlough, Ludwig Sherman	Mayfield	Hist. gr.	1430 Palo Alto, M-m
A.B., Idaho, 1909			
Gerry, Martin H.	San Francisco	Pol. S. 92·92+34	Sigma Chi-*628*
A.B., Stanford, 1925			
Gertmenian, Harold A.	So. Pasadena	Econ. 19·161+107	235 Toyon-*1712*
A.B., Stanford, 1925			
Gibbons, Henry	San Francisco	LD 92+89	Pacific Grove-pg
Gibbons, Lewis Alberto	Los Angeles	Law 47·135+68	Sig.Al.Eps.-*1305*
A.B., Stanford, 1925			
Gibbons, Morton R., Jr.	San Francisco	Zool.183+72	SigmaAlphaEps.-*1305*
A.B., Stanford, 1925			
[4]Gibbs, Allison Johnson	Stanford Univ.	LD	Kingscote-*326*
[4]Gibson, John W.	Victoria, B.C.	Educ. gr.	855 Waverley-*1168*
A.M., Queen's University, 1908.			

[4]Gibson, Josephine Ruth	Fresno	Fr. ‡	Roble
[2]Gibson, William Earl	Palo Alto	C.E. 77–35	1801 Waverley-p
[3]Gidal, Harry Bernard	Palo Alto	Med. gr.	427 Homer-p
A.B., Stanford, 1922			
Gieseke, Walter	Germany	Germ. 135·46+50	334 Homer
A.B., Stanford, 1925			
Gifford, John P.	Berkeley	LD 23·41–6	325 Encina
[5]Gilbert, M. Fay	Hoquiam, Wn.	Math. gr.	364 Roble-*587*
A.B., Stanford, 1925			
[13]Gilbert, Walter Eugene	Los Angeles	Law 81·64+13	133 Branner
[4]Gilbert, William I., Jr.	Los Angeles	LD	122 Toyon
[234]Gilkey, Wallace Alfred	Palo Alto	Chem. gr.	255 Alma-p
A.B., Stanford, 1922, Engineer, 1923			
[5]Gill, J. Francis	Indianapolis, Ind.	LD 44+50	230 Union-*725*
[4]Gill, John	Redwood City	Educ. gr.	Box 45, rc
A.B., College of the Pacific, 1912			
Gill, Roland Jerome	San Francisco	Econ. sp. 176–18	AlphaDel.Phi-*J*
Gillespie, George Alvin	San Francisco	LD 49+19	110 Encina-*996*
[4]Gillespie, Henrietta Louise	Seattle, Wn.	Hist. ‡	Roble
[34]Gillespie, John Wynn	Albany, Ga.	Bot. gr.	315 Union
B.S., Georgia, 1923			
Gillett, Andrew Lewis	Carmel	LD 94+*22*	Theta Xi-*1355*
Gillett, Thomas Robert	Carmel	LD 83+4	Theta Xi-*1355*
[4]Gilman, Maud Ruth	San Jose	Educ. gr.	R*2*, Box 212A, SJ-sj
A.B., College of the Pacific, 1916			
[12]Gilpin, Dorothy Helen	Hanford	LD 88+70	116 Roble-*557*
[5]Gilstrap, Louis Frederic	Alhambra	Geol. 135·42+18	215 Toyon-*1992*
[12]Ginella, James Arthur	Menlo Park	LD sp. 16–17	Laurel Ct.,MP-mp
[12]Gingles, Julian Johnstone	Santa Cruz	LD 21–28	18 Encina
[4]Giragosian, Zabella K.	Fowler	Bact. ‡	270 Parkinson Place-p
Givan, Charles Vernon	Sacramento	M.E. 7·192+240	564 Encina-*1756*
A.B., Stanford, 1925			
[13]Gladding, Helen Adeline	Lincoln	Span. 114+16	Alpha Om. Pi-*1367*
Glade, H., Alexander	Alameda	LD 43–4	406 Encina-*1551*
[5]Gladstone, Jacob Bernard	Menlo Park	Ent. sp. 15·146+6	Doyle, MP-mp
Gleason, Elizabeth Morris	Pasadena	Soc. S. 95·85+40	Alpha Phi-*1387*
A.B., Stanford, 1925			
Glen, William A.	Rock Springs, Wyo.	LD 91+30	80 Sequoia-*1002*
[4]Glenn, Ray Fielding	Lincoln, Neb.	Educ. gr.	214 Union
A.B., Nebraska, 1920			
Goddard, Glenn William	Golden, Colo.	Educ. 82·109+7	331 Encina-*1752*
A.B., Stanford, 1925			
[5]Gold, Charles W.	Cleveland, Ohio	S. Biol. ‡ 40–3	*226* Union
[5]Golden, John Richard	San Francisco	LD 52+38	115 Toyon-*912*
Goldie, Pirie Richard	Wilmington	Econ. 71·91–14	659 Middlefield-p
Goldwater, Richard Michel	Los Angeles	Law 136+*122*	*202* Toyon-*1124*
Gooden, C., Frances	Los Angeles	LD 100+185	*271* Roble-*657*
Goodloe, Thomas M., Jr.	Hollywood	LD 55+70	*32* Encina
Goodman, WalterM.	Williamson, W.Va.	Econ. gr.	Menlo Park-*1904*
B.S., Ohio State, 1924			
[5]Goodrie, Miranda	Grafton, N.D.	Engl. 94·74+77	*723* Hamilton-*514*
Goodwin, Albert	Gilroy	LD 92+84	10 Sequoia
Googin, Thomas Max	San Rafael	LD 92+50	237 Toyon-*614*
[4]Gordon, George Louis	Boulder Creek	Educ. 117·45+56	301 Toyon

Gordon, Leslie Oral	Stanford Univ.	Hist. 129+6	307 Branner-*1281*
Gordon, Morris A.B., Stanford, 1925	San Francisco	Pre-Clin. 90·96+92	136 Branner
Gorham, Curtis Byron A.B., Stanford, 1924	San Diego	Med. gr.	2217 Buchanan, SF-sf
[5]Gosslin, William Leslie	Portland, Ore.	Pol. S. 171+274	242 Toyon-*1005*
[4]Gottenberg, Mabel Jones B.S., California, 1913	Palo Alto	Chem. gr.	321 Addison-p
Gottschalk, William, Jr.	Los Angeles	Econ. 136+102	208 Branner-*1100*
[5]Gove, Richard Leonidas A.B., California, 1922	Oakland	Law gr.	314 Union-*136*
[23]Gowell, Francis Winchester	Palo Alto	LD 101–2	538 Cowper-p
[4]Grable, Goss Silas A.B., Stanford, 1922, A.M., 1923	San Jose	Hist. gr.	27 So. 9th, SJ-sj
Grace, Thomas Joseph A.B., Stanford, 1925	Santa Rosa	Econ. 184+116	PhiGam.Del.-*1324*
[5]Grady, Ainslee Selby A.B., Stanford, 1925	Fargo, N.D.	Law gr.	429 Forest-*1624*
[5]Graham, Alden Gerard	Portland, Ore.	Law 24·89+58	Zeta Psi-*B*
[4]Graham, J. Duncan	Fort Jones	LD sp.	325 Alma
Graham, Kenneth Campbell	Pasadena	LD 91+4	Phi Kappa Sigma-*1306*
Graham, Lloyd E. A.B., Stanford, 1924, Engineer, 1925	Stanford Univ.	E.E. gr.	533 Encina-*663*
[4]Grant, Harold	Emporia, Kans.	LD sp.	1004 Emerson-p
Grant, James A. Clifford A.B., Stanford, 1924, A.M., 1925	Los Angeles	Pol. S. gr.	318 Lincoln-p
Grant, John Delano	Healdsburg	LD 39–2	424 Encina-*711*
[4]Grant, Ulysses S., IV A.B., Harvard, 1915	Burlingame	C.E. gr.	1137 Oxford Rd., B-b
Grant, Warren Edward	Youngstown, O.	LD 46+25	119 Encina-*1154*
[4]Gratz, Eleanor Victoria A.B., Stanford, 1921	San Jose	Educ. gr.	92 Curtis, SJ-sj
[4]Graves, Albert Donovan	Whittier	Psych. ‡	-*1186*
Graves, Alden Matthew	San Francisco	LD 55–13	216 Branner
Graves, Arthur Joseph A.B., Toledo, 1921	Palo Alto	Hist. gr.	660 Waverley-p
Graves, David Dunbar	Los Angeles	LD 91+18	DeltaKap.Epsilon-*OO*
Graves, Jack Hiram	Willows	LD 68–6	Theta Delta Chi-*T*
[3]Graves, John Dunbar A.B., Stanford, 1925	Los Angeles	Econ. 181+102	Alpha Tau Omega
[12]Graves, Virginia Rosseau A.B., Stanford, 1925	Hollywood	Engl. 120·71+30	Kap.Al.The.-*1336*
[5]Gray, Earl Haskins A.B., Stanford, 1925	Petaluma	Med. gr.	625 Hamilton-p
Gray, Miles Robert	Los Angeles	LD 45+7	446 Encina
Gray, Stewart	Benicia	LD 41–5	362 Encina-*1226*
Green, Bert Marion	Fresno	Law 133+17	Theta Chi-*1383*
Green, Carl Edwin	Los Angeles	LD 51+62	20 Encina-*1291*
[2]Green, Cecil H. A.B., Nevada, 1924	Reno, Nev.	Law gr.	507 Encina
Green, G. Garner	Los Gatos	LD 90+3	242 Toyon-*85*
[4]Green, Raymond Elwood B.S., Idaho, 1922	Sanger	Educ. gr.	526 University-p
Greenacre, Esther Florence	Greeley, Colo.	Engl. 8·137+128	Del.Del.Del.-*1325*
[5]Greene, Frank Townsend	Hollywood	Engl. ‡ 42–10	11 Salvatierra-*1781*

Greene, Harold Hartley A.B., Stanford, 1925	Columbia, Mo.	Zool. 100·82+59	72 Sequoia-*878*
Greene, Philip Burkland	Spokane, Wn.	LD 86+47	Theta Chi-*1383*
Greene, Robert Leroy A.B., Stanford, 1925	Santa Ana	Econ. 90·90+29	113 Toyon-*1082*
Greene, Virginia Marion	Ogden, Utah	LD 46+52	374 Roble-*1436*
Greenhalgh, Howard Creighton	Jackson	LD 44+29	245 Encina
[5]Greenleaf, Sidney Nelson B.S., Washington, 1920	Seattle, Wn.	Law gr.	9 Union-*O*
Greenwood, Harriett Fern	Orland	Hist. ‡ 40+7	323 Roble-*1467*
[1]Greer, John Horace	El Centro	M.E. ‡ 11–10	451 Channing-p
[24]Gregory, John Munford	San Francisco	Phil. 22·81–12	14 Cabrillo-*1588*
[5]Greiner, Francis LaSha	Spokane, Wn.	Econ. 160+55	228 Toyon-*95*
Greisser, Arthur H.	Spokane, Wn.	LD 85+33	Sigma Nu-*1385*
Greisser, Victor P.	Spokane, Wn.	LD 88+23	Sigma Nu-*1385*
Greninger, Alden B.	Antofagasta, Chile	LD 55+27	24 Sequoia-*1771*
[3]Grey, Elaine Alethea	Alameda	LD 11–5	241 Roble
Gridley, Helen Butler A.B., Stanford, 1925	Auburn	Math.100·93+52	Kap.Al.The.-*1336*
van de Griendt, Gerald H. A.B., Stanford, 1925	Los Gatos	Chem. gr.	561 Encina-*1293*
[1]Griffin, Frank Joseph A.B., Stanford, 1924	Redwood City	Educ. gr.	Redwood City-rc
Griffith, James Nelson	Laguna Beach	Geol. 96·34+16	7 Cabrillo-*2033*
Griffith, S. Carleton A.B., Stanford, 1925	Kittanning, Pa.	Math. 87·96+62	503 Encina
Grigg, Richard Wyman	Los Angeles	LD 58+31	Phi Kappa Psi-*1333*
[5]Grill, Margaret Eleanor A.B., Stanford, 1925	Los Angeles	Econ. gr.	102 Roble-*686*
Grinstead, Elizabeth Priest B.S., Missouri, 1924	Columbia, Mo.	Psych. gr.	30 Encina Ave.-*678*
Griswold, Edward Philip	Modesto	LD 51·43+28	350 Encina-*938*
Griswold, Gale Charles A.B., Stanford, 1925	Modesto	Chem. gr.	224 Toyon-*938*
[23]Griswold, Hugh Harris	Palo Alto	Law 37·140+94	454 Hamilton-p
Griswold, Marjorie B.	Port Clinton, O.	LD 45+57	357 Roble-*1784*
[13]Gross, J. Kathryn	Salinas	Hist. 105+99	Gam. Phi Beta-*1337*
Grossmann, Carolyn Clapp	Santa Barbara	LD 15·72+71	160 Roble-*1155*
Grunland, Dean Paul	Portland, Ore.	LD 90+94	Phi Gamma Delta
[23]Gruss, Francis Kinsey	San Francisco	Pre-Med. 114·32+7	Zeta Psi
Grutzmacher, Robert Lee	Hollywood	LD 82+12	119 Toyon-*I*
Guerra, Carlos E. P. A.B., Stanford, 1925	Mexico City, Mex.	Chem. 180+9	251 Emerson-p
[124]Guest, Harold Walter A.B., Albion, 1921; A.M., Illinois, 1922	Otsego, Mich.	Econ. gr.	1140 Bryant-p
Guffin, Ernest Ellsworth	Mankato, Kans.	LD 42–5	431 Encina
Gump, Richard Benjamin	San Francisco	LD 20–8	140 Encina
Gunn, Robert Mackelcan	Sausalito	LD 39–11	426 Encina-*1894*
[21]Gunnerson, Flora Adair A.B., Harris Teachers College, 1920	St. Louis, Mo.	Soc. S. gr.	Madroño-*847*
[24]Gunnerson, William Fulton	Riverside	LD 24+2	304 Union
[12]Gunther, Chester Oliver A.B., Stanford, 1925	Portland, Ore.	Econ. 189+19	Beta Theta Pi-*1335*
[4]Gustafson, G. Hjalmer	Jamestown, N.Y.	Econ. ‡	Theta Chi-*1383*

Guthrie, Frank Donald — Mountain View — LD 40+2 — Mountain View-*mv*
Gyde, James Ellsworth — Wallace, Ida. — Law 91·89–10 — 307 Union-*954*
Haage, Delbert D. — Forest Grove, Ore. — Pre-Med. 94·32+2 — 407 Waverley-p
Habegger, James Arnold — Oakland — LD 90+34 — Chi Psi-*1468*
Hablutzel, Charles Edward — San Jose — Chem. 7·176+159 — 115 Toyon-*1577*
A.B., Stanford, 1925
[5]Hack, Dorothy Eleanor — Altadena — S. Biol. 46·90+91 — 363 Roble-*511*
[23]Hackett, Ruth Josephine — Palo Alto — LD ‡ 30+2 — 707 Middlefield-p
Hadenfeldt, Frances — Piedmont — LD 46+17 — 333 Roble-*1877*
[5]Haeske, Carroll Michael — Bellingham, Wn. — Engl. gr. — 305 Union
A.B., Washington, 1924
Hagbom, Nelden Andolf — San Francisco — LD 86+95 — AlphaTauOmega-*1384*
[4]Haglen, ClarenceE. — Stromsburg, Neb. — Sch. Ed. gr. — 202 Toyon
B.S., Nebraska, 1917
Hagen, Emmabelle M. — Rochester, N.Y. — LD 40+21 — 257 Roble-*1037*
Hahn, Albert Payer — San Francisco — LD 53+1 — 433 Encina-*1194*
Hahn, Young D. — Los Angeles — Med. gr. — 2011 California, SF-sf
A.B., Stanford, 1923
Haight, Herbert Schuler — Stockton — LD 34–4 — 27 Encina-*1572*
[4]Haizlip, Raymond — San Francisco — Law gr. — Zeta Psi
A.B., Stanford, 1922
[4]Hale, Eva — Merced — Sch. Ed. gr. — Roble
A.B., Nevada, 1919
[13]Hale, Marshal, Jr. — San Francisco — Law 182+2 — Sigma Nu-*1385*
Haley, Cecil Irving — San Jose — Econ. 183+28 — Theta Delta Chi-*T*
A.B., Stanford, 1925
[5]Haley, Kenneth Wendell — Bakersfield — Min. 137+141 — 226 Toyon-*H2*
Hall, Cyril Benjamin — Nevada City — LD 77–7 — 33 Sequoia
[5]Hall, Elizabeth Pierson — Los Altos — Fr. 126+23 — Sigma Kappa-*1327*
[3]Hall, Ernest Mosiah — San Francisco — Med. gr. — 2191 Pine, SF-sf
A.B., Brigham Young, 1905; M.S., State College of Washington, 1916; M.D., Stanford, 1925
[4]Hall, Giles Stark — Los Angeles — LD 87–14 — Alpha Delta Phi
[4]Hall, Gladys Bruce T. — Palo Alto — LD — 1052 Bryant-p
[12]Hall, Gordon, Jr. — Berkeley — LD 29+41 — 426 Encina
[4]Hall, Grace Louise — Palo Alto — LD sp. — 327 Lytton-p
[5]Hall, John — Los Angeles — Law 5·180+99 — 124 Toyon-*1468*
Hall, Joseph Sargent — Los Angeles — LD 47+66 — 415 Encina
[4]Hall, Luella Jemina — Portland, Ore. — Hist. gr. — 321 Roble
A.B., North Dakota, 1917, A.M., 1919
Hall, Mildred S. — Bishop — Soc. S. 45·127+138 — 200 Roble-*968*
A.B., Stanford, 1925
[1]Hall, Robert Robbins — Nevada City — LD 43–36 — 581 Forest-p
Hall, Victor Ernest — San Francisco — Med. gr. — 2263 Sacramento, SF-sf
A.B., Stanford, 1922
[4]Halleck, Joseph — San Francisco — Econ. gr. — 7 Union-*1494*
B.S., Iowa, 1908
Halverson, Cutler W. — Oakley, Ida. — Law 49·136+87 — PhiSigmaKap.-*538*
A.B., Stanford, 1925
[4]Ham, Anne Elizabeth — Los Gatos — Sch. Ed. gr. — Kingscote-*1584*
A.B., Stanford, 1921
[4]Hamilton, Edward M. — Santa Clara — LD ‡ — Sigma Alpha Epsilon
[4]Hamilton, Elceia — San Diego — LD — 220 Roble
Hamilton, Fay Dunn — Tulsa, Okla. — LD 43+67 — 362 Roble-*908*

Hamilton, Kenneth Howard A.B., Stanford, 1925	Westley	M.E. 186+68	555 Encina-*H2*
[234]Hamilton, Wallace Roy	San Diego	Pol. S. ‡ 23–12	Kappa Sigma-*1326*
Hamlin, Harris Howard A.B., Stanford, 1922	Palo Alto	Med. gr.	846 Cowper-p
[4]Hamlin, Helen	Santa Cruz	LD sp.	327 Lytton-p
Hamlyn, Jack Joseph, Jr.	San Francisco	LD 50+23	436 Encina
Hammer, John Edwin	San Francisco	LD 30–18	436 Encina
[23]Hammer, Otto	Los Angeles	M.E. 126–5	Kappa Alpha-*1356*
Hammond, Elmer Halbert A.B., Stanford, 1925	Palo Alto	M.E. 22·158+258	635 Homer-p
Hammond, Wilbert John A.B., Stanford, 1925	San Diego	Econ. 74·121+42	ThetaDel.Chi-*T*
[5]Hanak, Norman William	San Francisco	LD 67+96	222 Toyon
Hancock, Joseph Rainey	San Jose	LD 90+35	532 S. 9th, SJ-sj
[4]Hand, David M. G. A.B., Central, 1902	Tonopah, Nev.	Educ. gr.	129 Emerson-p
Hanify, Francis Ryder	San Francisco	LD 44+30	227 Encina
[1]Hanley, James Leonard	San Francisco	LD 28–17	Delta Tau Delta-*1363*
[4]Hanner, John Flint A.B., Stanford, 1922	Huntington Park	Educ. gr.	249 Mariposa, SJ-sj
Hansell, Elvan Amos A.B., Stanford, 1925	Eureka	Econ. 184+175	247 Toyon-*606*
Hansen, Carl Joseph	Morgan Hill	LD 92+17	5 Sequoia
[234]Hansen, Hazel Dorothy A.B., Stanford, 1920, A.M., 1921	San Mateo	Cl. Lit. gr.	402 Tilton, SM-sm
[4]Hansen, Julia Geraldine	Palo Alto	Ed. G.A. ‡	204 Portola-p
Hanson, Frederic D. A.B., Stanford, 1924	Los Angeles	Min. gr.	543 Encina-*2*
Harbison, Robert Lezotte	San Bernardino	LD 46+30	425 Encina
[1]Harding, Frederic Warner	El Paso, Tex.	Law 94+18	Menlo School-mp
[5]Harding, Victor Hunt A.B., Stanford, 1925	Palo Alto	Pol. S. gr.	170 Laurel-p
[23]Hardwicke, Kenneth C. A.B., Stanford, 1925	Fresno	Econ. 180+51	Al.Kap.Lamb.-*658*
Hardy, Edward Everett	Seattle, Wn.	LD 105+40	Kingscote-*697*
Hardy, Jack Wagner	Los Angeles	Law 135+43	Delta Chi-*1304*
Hardy, May Genevieve	Montrose, Colo.	LD 45+78	365 Roble-*1935*
Hardy, Millison Cutler	San Diego	Econ.131+166	Kap.Kap.Gam.-*1354*
Harger, Donald K. A.B., Stanford, 1925	Los Angeles	Chem. gr.	118 Toyon-*1166*
[34]Harger, Solon Burt	Los Angeles	LD	118 Toyon-*716*
Hargreaves, Lotus Odeal	San Jose	Span. 107+158	Sigma Kappa-*1327*
Harlow, MaxBunch	ThompsonFalls, Mont.	LD 86·70+29	117 Toyon-*1088*
[12]Harlow, Paul K.	ThompsonFalls, Mont.	LD 15–3	232 Encina-*1088*
Harman, George Samuel A.B., Stanford, 1925	San Francisco	C.E. 191+14	216 Toyon-*1855*
[5]Harmon, Ella Maude A.B., Kentucky, 1918	Perryville, Ky.	Hist. gr.	661 Gilman-p
[23]Harmon, Ellis Drew A.B., Nevada, 1925	San Francisco	Phyl. gr.	1934 10th Ave., SF-sf
Harmon, F. Carlyle	Santa Clara	LD 96+123	1065 Harrison, SC-sc
Harpoothian, Edward George A.B., Stanford, 1925	Fresno	Math. 135·46+65	74 Moss, SF-sf
[4]Harr, Lloyd T.	Emporia, Kans.	LD sp.	1004 Emerson-p

Harrell, Lorimer Benton — Merced — Law 183+71 — Sig.AlphaEps.-1305
A.B., Stanford, 1925
Harriman, Thomas Russell — Pasadena — LD 41+3 — 228 Encina-*1763*
[5]Harrington, Charles Henry — Corona — Chem. gr. — 801 Waverley-p
A.B., Stanford, 1925
[5]Harrington, Edward Wentworth — Hollister — Educ. gr. — Cupertino
A.B., Stanford, 1920
Harris, Anna — San Francisco — Engl. 108·50+58 — 339 Roble-*626*
[5]Harris, David W. C. — Stanford Univ. — Hist. gr. — 313 Union-*947*
A.B., Stanford, 1925
[4]Harris, Henry, Jr. — San Francisco — LD — 115 Toyon-*626*
Harris, L. Earl — Fresno — LD 25–18 — 115 Encina-*1187*
[5]Harris, Leo Alvil — Santa Cruz — Educ. 140+104 — 241 Toyon-*692*
Harris, Robert Henry — Cando, N.D. — LD 43+11 — 427 Encina-*2017*
Harrison, Fay — Los Angeles — LD 87+144 — *229* Roble-*61*
Harrison, Standish Harold — Tacoma, Wn. — LD 91+1 — Sigma Nu-*1385*
Harroun, Margaret — Carlsbad, N.M. — Fr. 181+150 — Delta Gamma-*1366*
A.B., Stanford, 1925
[4]Hart, Gladys — Hardy, Neb. — Econ. gr. — Phi Sigma Kappa
A.B., Nebraska, 1916
[4]Hart, Hallie Ruth — Portland, Ore. — Educ. gr. — 225 Roble
A.B., Oregon, 1919
Harter, Doris Irene — Woodland — Psych. gr. — Manzanita-*1227*
A.B., Stanford, 1924, A.M., 1925
Harter, Richard Wesley — Los Angeles — LD 44+22 — 40 Encina-*1413*
Hartmann, Henry Frederick — San Diego — LD 44+24 — 422 Encina-*2025*
[23]Hartranft, S. Glenn — Palo Alto — Hist. 127–15 — 135 Harriet-p
Hartung, Frank Herbert — Reno, Nev. — Pre-Clin. 135·46–8 — 327 Union-*1594*
[23]Hartwell, Anne Davis — Santa Barbara — LD 28–3 — 366 Roble
[3]Hartwell, Robert Clark — Los Angeles — LD 64+7 — Kappa Alpha-*1356*
Harvey, Byron S. — Lake Forest, Ill. — LD 79+36 — Delta Upsilon-*1353*
Harvey, Harold Ringer — Buhl, Ida. — Econ. 135·48+29 — 432 H'thorne-*1862*
A.B., Stanford, 1925
[23]Harville, Richard Towner — Berkeley — Econ. 87–13 — Beta Theta Pi-*1335*
Harward, Elbert Jay — Boise, Ida. — Pol. S. 43·139+89 — 515 University-p
A.B., Stanford, 1925
Harwood, Mary Frances — Upland — LD 87+82 — Kap.Kap.Gamma-*1354*
Haseltine, Theodore R. — Crockett — C.E. 190+256 — 219 Toyon-*1855*
A.B., Stanford, 1925
[5]Haskell, Dudley Haines — San Francisco — LD 58+54 — 258 Toyon
Hasselbalch, Earl L. — St. Edward, Neb. — Law gr. — 627 Bryant-p
B.S., Nebraska, 1923
[12]Hastings, Frank LeRoy — Los Angeles — LD 54+37 — Sigma Chi-*628*
[4]Hastings, Mary Alice — Cairo, Ill. — Hist. gr. — 180 Roble
A.B., Smith, 1916
[234]Hastings, Robert — Sawtelle — Chem. 4·152+10 — Cooley-p
Hastings, Ross Reed — Sausalito — Law 152+150 — 19 Salvatierra-*1282*
[12]Hatch, Hazel — Modesto — Ed.G.A.106·78+57 — ChiOmega-*1386*
A.B., Stanford, 1925
[4]Haub, Hattie Dora Frances — Berkeley — Educ. gr. — Roble
A.B., Stanford, 1903
[12]Hauck, Roland Leonard — Stanford Univ. — LD 68+16 — 20 Branner-225 H'mltn,p
Hausch, Douglas C. — Visalia — LD 90+18 — Theta Chi-*1383*
[4]de Hauthmoll, Louise Gabrielle — Palo Alto — LD — 454 Forest-p

[4]Havenstrite, Ralph Walter Forestville Sch. Ed. gr. 403 Alma-p
B.S., Oklahoma Agricultural, 1915
[4]Haw, Harry Huber, N.D. Sch. Ed. gr. Palo Alto-p
A.B., College of the Pacific, 1918
Hawkins, Dorothea Cavitt San Francisco LD 45+26 252 Roble-*1984*
Hawkins, Robert Zeimer Reno, Nev. Pol. S. 181+183 35 Sequoia-*603*
A.B., Stanford, 1925
[5]Hawkins, Stanley Lloyd Mountain View Hist. 181+59 Mountain View-mv
[5]Hawkins, Wayne Lee Mountain View Educ. 74·112+19 Mt. View-mv
[12]Hawley, Bertram Lee Santa Paula LD 14–18 345 Encina-*1873*
[1]Hawley, Harold Sutter LD 4–15
[4]Hawley, Mary Louise San Francisco LD ‡ Roble
Haxton, Wallace Raymond San Jose Educ. 22·98+9 127 Fremont, SJ-sj
Hay, Byron Wesley Bakersfield LD 44+36 349 Encina
[23]Hay, Gerald M. Bakersfield Econ. 96–6 Delta Chi-1304
Hayashi,FrancisMinoru Yamaguchi,Japan M.E. 141+130 Japanese Club-*598*
[23]Hayden, Clifford Russell San Francisco LD 15·43–38 23 Toyon
[4]Hayden, Sara Davis Tempe, Ariz. Educ. 123·18+11 350 Roble
Haydock, Ethel Oxnard LD 88+42 Chi Omega
[12]Hays, Frank Bellchambers Palo Alto M.E. 194+58 555 Encina-*H*
A.B., Stanford, 1925
[23]Hays, George P. Palo Alto Econ. 165+25 Chi Psi-*N*
[5]Hays, Harford Holmes Palo Alto Engl. gr. 825 University-p
A.B., Stanford, 1924
[34]Hays, Paul Raymond New York, N.Y. Cl. Lit. gr. 723 Hamilton-p
A.B., Columbia, 1925
[14]Hays, Vida Palo Alto Ed. G.A. 34·84–1 825 University-p
Hays, Walter Grant Palo Alto Law 183+181 635 Cowper-p
A.B., Stanford, 1925
Hays, William Eugene Santa Ana Econ. 135·37+12 PhiKap.Psi-*1333*
[4]Hazelton, Mildred McC. Los Angeles Hist. gr. Roble
A.B., California, Southern Branch, 1925
Healey, James Claude San Francisco Law sp. 158+18 130 Melville-p
[5]Heckendorf, Percy C. Stanford Univ. Law gr. 117 Grant, SJ-*883*
A.B., Stanford, 1923
Hedge, James Roland Redwood City LD 29+22 445 Arlington, RC-rc
[1]Hedges, Donald Addison Palo Alto LD 44+11 558 Lincoln-p
Hefner, Robert A., Jr. Ardmore, Okla. LD 48+58 410 Encina-*1522*
Heidig, Alfred Gerhard San Francisco M.E. gr. 405 Kipling-p
A.B., Stanford, 1925
Heineman,Gertrude Theodora Hollywood LD 42+16 350 Roble-*642*
Heller, George Sydney Los Angeles LD 66+11 Sigma Chi-*628*
Hellman, Vilho John Fort Bragg LD 47+4 16 Encina
Helmke, Rae Frederick Fort Seward LD 37–8 325 Encina-*1312*
Henderson, Adin Douglas Los Molinos LD 45·45+8 138 Encina
[34]Henderson, Francena E. Del Monte LD 50·15+5 149 Roble-*1766*
[4]Henderson, Roy Munger Los Angeles LD 113 Toyon
[14]Henderson, Virginia June Los Angeles Phil. 178+59 301 Roble
[4]Hendricks, Ira King Logan, Utah Engl. gr. 577 Hanover, M-*1103*
B.S., Utah Agricultural, 1923
[23]Hendrickson, Arthur Howard Mt. View Bot. gr. Mountain View-mv
B.S., Michigan Agricultural, 1913; M.S., Cornell, 1920
Henninger, Carl Bellingham, Wn. Span. gr. 21 Salvatierra-*652*
A.B., Indiana, 1907; A.M., Illinois, 1908

Henry, Archie Ward — Pullman, Wn. — Med. gr. — 127 Lowell-p
B.S. State College of Washington, 1910; A.B., Stanford, 1923
[23]Henry, Collice — San Luis Obispo — Cl. Lit. gr. — Madroño
A.B., California, 1921, A.M., 1922
Henry, Warner White — Los Angeles — Hist. 132+82 — DeltaKappaEps.-*O*
[4]Henshall, Marian Barbara — Los Angeles — LD ‡ — Kingscote
[5]Herdman, Robert Eugene — Los Angeles — Law 143+21 — Delta Kappa Eps.-*942*
[12]Herkomer, Vincent Edward — Auburn — LD 13–14 — 208 Encina-*565*
[4]Herman, Fred Louis — Greeley, Colo. — Chem. gr. — 324 Union
B.S., Nebraska, 1921
[4]Hermanstoffer, Goldea O. — Shawnee, Okla. — LD sp. — Roble
Herndon, Leroy Travers, Jr. — Gonzales — LD 110+104 — 445 Encina-*2058*
[12]Herold, Stanley Carrollton — Stanford Univ. — Geol. gr. — 4 Union
A.B., Stanford, 1909
Herrington, Alan David — Hollywood — LD 45+25 — 446 Encina
Herrington, Lovic Pierce — Waynesboro, Ga. — LD 88+15 — Sigma Nu-*1385*
[13]Herth, Leslie Patrick — Los Angeles — LD 74+47 — Kappa Sigma-*1326*
[12]Hertlein, Leo George — Stanford Univ. — Geol. gr. — 510 Encina
A.B., Oregon, 1922; A.M., Stanford, 1923
Hertsche, Joel C., Jr. — Portland, Ore. — LD 141+52 — 207 Branner-*40*
Herz, Ludwig Ernest — Mayfield — S. Biol. 157+140 — Mayfield-m
[12]Hess, Kenneth William — San Jose — Econ. 120+65 — Al. Tau Omega-*1384*
Hesselmeyer, Clarence T. — San Francisco — E.E. gr. — 335 Union-*1643*
A.B., Stanford, 1924, Engineer, 1925
Hesthal, Cedric Edward — San Francisco — Phys. gr. — 750 Hamilton-p
A.B., Stanford, 1925
Heston, Albert Eugene — San Bernardino — Law 45·90+33 — 104 Branner
Hewitt, Dorothy — Long Beach — Pre-Med. gr. — Kingscote-*2013*
A.B., Pomona, 1924
Hey, Clifford L. — Hayward — Hist. 144–3 — Kappa Sigma-*1326*
Hiatt, John Meredith — Rivera — LD 45+75 — 303 Encina
[4]Hibbard, Harry Ambrose — San Francisco — Educ. gr. — 3333 Buchanan, SF-sf
A.B., California, 1925
[4]Hibbard, Richard Hugh — Pomona — LD — 226 Toyon
[23]Hicklin, Maurice — Palo Alto — Engl. gr. — 912 Waverley-p
A.B., Missouri, 1910; A.M., Stanford, 1924
Hieb, Otto Helmut — Lodi — LD 45+23 — 205 Encina-*829*
Higgins, John T. — Watsonville — LD 48+19 — 13 Encina-*1278*
[4]Higgins, Martin Joseph — Palo Alto — Cl. Lit. gr. — 745 Waverley-p
St. Patrick's Seminary, 1924
[4]Higinbotham, Mary A. — Manhattan, Kans. — Hist. gr. — 318 Roble
B.S., Kansas State Agricultural, 1925
Hill, Alexandra Leslie — Kelseyville — LD 37–11 — 326 Roble-*595*
Hill, Beatrice Elizabeth — Albuquerque, N.M. — Econ. 15·117+139 — G.Phi Beta-*1337*
Hill, Donald Kinman — Long Beach — LD 33–14 — 364 Encina-*565*
[4]Hill, Edith Abigail — Redlands — Fr. gr. — Madroño
A.B., Stanford, 1903
[3]Hill, Forrest Macaulay — Sacramento — LD 16+3 — 128 Encina
Hill, Harold Preston — Grenada — LD 47+11 — 401 Encina-*1541*
[4]Hill, Helen Jeannette — So. Pasadena — Engl. ‡ — 243 Roble
Hill, Ward Ames — San Francisco — Law 141+186 — 212 Toyon-*1855*
[1]Hilliard, Del Hicks — Tacoma, Wn. — LD sp. 6–22 — 475 Forest
Hillis, Katholeen — Los Angeles — Phil. 45·138+174 — 319 Roble
A.B., Stanford, 1925

[3]Hilmer, Roland William	San Francisco	LD 14–6	208 Encina
Hinckle, William	Los Angeles	LD 81+40	Phi Kappa Sigma-*1306*
Hinckley, LeRoy Lafayette	Watsonville	LD 45+33	13 Encina-*1277*
Hindry, Horace Waldo	Denver, Colo.	LD 44+8	128 Encina-*1613*
Hines, Don Carlos	San Jose	Phyl. 143+277	201 Toyon-*896*
Hines, Frederick Edwards	San Jose	LD 45+84	123 Encina-*896*
Hinkle, George Henry	Truckee	Engl. 89·83+110	611 Bryant-p
[4]Hintgen, Josephine A.B., Wisconsin, 1920	La Crosse, Wis.	Educ. gr.	*226* Roble
Hippard, Harriett Amanda A.B., Western Reserve, 1924; A.M., Stanford, 1925	Cleveland, O.	Chem. gr.	1432 Webster-p
[4]Hitchcock, Lewis G.	Stanford Univ.	LD 124+26	El Toro
Hjelm, Harold LeRoy A.B., Stanford, 1925	Turlock	Law 188+192	241 Branner-*1468*
[4]Hoagland, Jackson	Phoenix, Ariz.	LD	311 Toyon
[5]Hobbie, Henry William	Redwood City	LD 66+13	Union
Hobro, William L.	San Francisco	Min. 186+52	220 Encina-*1855*
[5]Hobson, Charles Wilfred A.B., Stanford, 1924	Whittier	Law gr.	109 Toyon
[1]Hodgin, Harriett E.	Newberg, Ore.	Psych. ‡	370 Roble
[13]Hodgson, Daphne	Yonkers, N.Y.	LD 72+33	Pi Beta Phi-*636*
[3]Hodgson, Foresta	Yonkers, N.Y.	LD 123+54	Pi Beta Phi-*636*
[5]Hofflund, John Leslie A.B., Stanford, 1924	San Diego	Law gr.	243 Toyon-*541*
[13]Hoffman, Clifford Pearson	Petaluma	LD 41+*22*	Zeta Psi-*B*
Hoffman, John Wade	Grimes	LD 41+10	12 Sequoia-*1827*
Hoffmann, Floyd Edward A.B., Stanford, 1925	Palo Alto	Law 185+46	442 Tasso-p
Hoffmann, Paul Edward A.B., Stanford, 1925	San Francisco	Phyl-Med.186+153	313Toyon-*1039*
Hoffmann, Pauline May	Los Angeles	Law 22·115+38	346 Roble-*1943*
Hogan, Phyllis Marie	Fowler	LD 92+56	374 Kingsley-p
Hogan, Verda Irene	Fowler	LD 92+117	374 Kingsley-p
[5]Holbrook, Bernard D. A.B., Stanford, 1924, A.M., 1925	Ann Arbor, Mich.	Phys. gr.	Alpha Delta Phi-*JJ*
Holbrook, Joanna Oliver A.B., Stanford, 1925	Ann Arbor, Mich.	Fr. 46·135+87	Delta Gamma-*1366*
Holdren, Floyd	Chandler, Ariz.	LD 16·41+25	County Road-*2032*
[4]Holen, Mabelle Amanda	Bertram, Neb.	LD	557 Hamilton-p
[4]Holen, Medie E.	Auburn	LD	557 Hamilton-p
Hollembeak, Hugh Ryan	Long Beach	Law 137+134	Alpha Sig. Phi-*1357*
[5]Holliday, Guy	Kansas City, Mo.	LD 59–2	625 Hamilton-*517*
Hollingsworth, W. Irving	Los Angeles	LD 39+0	*226* Encina
[4]Hollister, Enid Smith A.B., Olivet, 1887	Arcata	Educ. gr.	Madroño
[4]Hollister, Frederic Morton A.B., Olivet, 1887	Arcata	Sch. Ed. gr.	Madroño-*1089*
Holman, Cranston William	San Francisco	LD 80+69	Alpha Delta Phi-*JJ*
[5]Holman, William Harry	Mayfield	Geol.99·45+47	1115PA,M-Bx515,p
[2]Holmes, Harlan Banta A.B., Stanford, 1922	Ashland, Ore.	Zool. gr.	806 Bryant-p
Holmes, Herbert David	Hayden Junc., Ariz.	LD 50+30	421 Encina-*1197*
[4]Holsclaw, Dugald Stanley	Tucson, Ariz.	LD ‡ 28+28	Toyon
[12]Holstein, Waldemar	Fresno	LD 54–2	138 Toyon

Holt, Haynes Hammie	Texarkana, Ark.	LD 77+10	1004 Cowper-p
[4]Holt, Henry Daniel	Covina	Math. gr.	832 4th, Burlingame-b
B.S., Virginia Polytechnic, 1911; A.M., Columbia, 1921			
[2]Holt, John C.	Beaver, Pa.	LD 0–13	116 Encina
Hongo, Harry Tatsuo	Okayama, Japan	LD 45+32	Japanese Club-*598*
[4]Honn, Edward Franklin	Bisbee, Ariz.	Sch. Ed. gr.	433 Kipling-p
A.B., Arizona, 1921			
[4]Honn, Nelle Sims	Bisbee, Ariz.	LD ‡	433 Kipling-p
[124]Hood, Thomas Howard	So. Pasadena	Econ. 74–19	Delta Chi-*1304*
Hooker, Philip Burton	Beverly Hills	Law 130+67	Kappa Alpha-*1356*
Hooker, Robert Gay, Jr.	San Mateo	Law gr.	El Cerrito Drive, SM-sm
A.B., Harvard, 1923; J.D., Stanford, 1925			
Hooker, Theron Potter	Beverly Hills	LD 45+10	446 Encina-*1674*
Hoots, Harold William	Mayfield	Geol. gr.	531 Hanover, M-*604*
B.S., Oklahoma, 1921; Ph.D., Stanford, 1925			
Hoover, Allan Henry	Stanford Univ.	LD 45+1	316 Encina-*708*
Hoover, Herbert, Jr.	Stanford Univ.	Min. 180+73	243 Toyon-*708*
A.B., Stanford, 1925			
[5]Hoover, Hulda Brooke	Stanford Univ.	LD 72+27	133 Roble-*A*
[234]Hoover, Malvern Edward	Santa Monica	Geol. 130+118	231 Branner
Hopkins, Theodore Amos	Santa Cruz	Econ. 132+43	211 Toyon-*645*
Hopper, Max Foster	Palo Alto	Chem. gr.	305 Churchill-p
A.B., Stanford, 1925			
[1]Hopper, Velma A.	Rocky Ford, Colo.	Econ. gr.	Chi Omega
A.B., Stanford, 1922			
[4]Hoppes, William Calvin	Ypsilanti, Mich.	Educ. gr.	225 Toyon
B.S., Oregon, 1921			
[4]Hopson, Winifred	Portland, Ore.	Law gr.	Roble
A.B., Oregon, 1923			
Horii, Masaru Michael	Los Angeles	LD 46+12	Japanese Club-*598*
[5]Horine, William Henry	Henryetta, Okla.	Law 91+94	Alpha Sigma Phi-*1357*
[234]Hornblower, Angus Gordon	Palo Alto	Pre-Med. 121–7	102 Middlefield-p
[5]Hornkohl, F. Frank	San Bernardino	LD 63+25	235 Union
Hornlein, Hugo Garvin	San Francisco	C.E. 180+38	136 Toyon-*967*
A.B., Stanford, 1925			
Hosom, Lynn Overton	Long Beach	LD 43+39	244 Encina-*1001*
[4]Hostetler, Ivan Paul	Miami, Ariz.	Educ. gr.	270 Kellogg-p
B.S., Kansas State Normal School, 1919			
Hotchkiss, Ardin Dale	Covina	LD 46–8	416 Encina-*1051*
Hotchkiss, Harold K.	Altadena	LD 90+50	Alpha Sigma Phi-*1357*
Hotchkiss, Theodore C.	Orange	M.E. 90·90+19	Theta Xi-*1355*
A.B., Stanford, 1925			
House, Maxwell	Santa Barbara	LD 43–13	436 Encina
[124]Hovey, Charles Garoutte	San Francisco	LD 30·84+3	110 Waverley-p
[23]How, John Hock	Canton, China	LD 113+18	Chinese Club-Bx.131,p
[1]Howard, Edward A.	Los Angeles	Econ. 17·166+40	Zeta Psi-*B*
A.B., Stanford, 1925			
[12]Howard, Evelyn	Sacramento	Chem. 180+225	147 Roble-*1210*
A.B., Stanford, 1925			
[4]Howard, George Carver	Los Altos	Educ. gr.	Los Altos-la
Bridgewater State Normal School, 1880			
[4]Howard, Lot D.	San Jose	LD	Pacific Grove-pg
[1]Howard, Sewall Bartlett	Palo Alto	LD 4–11	325 Encina
Howe, Ralph Denny	Palo Alto	Pre-Clin. 186+119	951 Channing-p
A.B., Stanford, 1925			

[5]Howe, W. Sanford	Sacramento	Pre-Med. 90·43+19	Box 276, p
Howes, Helen Dorothy A.B., Stanford, 1925	Omaha, Neb.	Fr. 46·141+132	100 Roble-*531*
[4]Howes, John Gaylord A.B., Stanford, 1914, A.M., 1915	Fullerton	Hist. gr.	219 Ramona-p
Howlett, Elizabeth	San Francisco	LD 77+110	Pi Beta Phi-*1332*
Hoxie, Robert Osborn A.B., Stanford, 1925	Los Angeles	Econ. 43·138+47	Delta Tau Delta
Hoxie, Stephen Parker	Los Angeles	LD 20·51+19	234 Encina-*873*
[5]Hoxsie, John Whitman	HuntingtonBeach	LD ‡ 10–4	136 Encina
Hoyt, Jonathan A.B., Stanford, 1925	San Francisco	Chem. gr.	145 Toyon
[4]Hsiao, Ching-Yun	Peking, China	C.E. ‡	403 Kingsley-p
Hsieh, Wen Ping A.B., Stanford, 1925	Hupeh, China	Engl. 90·91+72	Chinese Club-*1136*
Hsiung, Wen Ming	Nanchang, China	LD 45·42+9	Atherton-*1765*
[23]Hsu, Fu Chih B.S., California, 1924	Changsha, China	Bot. gr.	328 Union-*1765*
[5]Huang, Hua Piao A.B., Washington, 1922	Kwangsi, China	Educ. gr.	168 University-p
Hubbard, Harley Corwin A.B., Stanford, 1925	Los Angeles	Law 181+71	Delta Upsilon-*1353*
Hubbard, Richard Kapp	Riverside	LD 52·95+113	215 Toyon-*1411*
Hubbard, William Henry, Jr.	Saratoga	LD 45–2	125 Encina
Hubler, Gaylord Neal	Porterville	LD 40–25	346 Encina-*1219*
Huff, Warren Rebstock B.S., Knox, 1922	Spokane, Wn.	Hist. gr.	445 Hamilton-p
Huffman, Hugh Martin A.B., Stanford, 1925	Los Angeles	Chem. 135·46+56	578 University
Hughes, Cornelius Louis	San Francisco	LD 87+24	87 Sequoia
[4]Hughes, Elizabeth A.B., Southern California, 1923	Oroville	Engl. gr.	851 Lytton-p
[1]Hughes, Frank A.	San Jose	Econ. 37–29	Phi Gam. Delta-*1324*
Hughes, Gordon Stanley A.B., California, 1924	Sacramento	Law gr.	Alpha Tau Omega-*1384*
[5]Hughes, James Shepard	Oroville	Pol. S. 67·45+3	PhiSigmaKap.-*538*
[1]Hull, Mary Ellen A.B., Stanford, 1925	San Mateo	Econ. 184+102	347 Roble-*136*
[4]Hull, Orlo Barton	San Jose	Educ. 112·17+15	671E.Julian,SJ-sj
Hull, Richard H.	Alturas	LD 49+15	410 Encina-*1193*
[4]Hull, William Roy A.B., Hastings, 1905	Clarkdale, Ariz.	Educ. gr.	201 Homer-p
Hulme, Mary Louise	Palo Alto	LD 44+35	361 Roble
Hulstede, George Edgar	San Diego	M.E. 90·46+46	49 Sequoia-*1722*
Humphrey, Harold Eugene	Reno, Nev.	Econ. 130+36	Sig.AlphaEps.-*1305*
[1]Humphrey, John Charles	Palo Alto	LD 0–10	571 Hamilton-p
[4]Humphrey, Winifred Shapleigh	Salinas	Educ. ‡	846 Lytton-p
[12]Huneke, Albert Hussey	Los Angeles	Law 9·157+9	659 Middlefield-p
Huneke, Helen Josselyn	Spokane. Wn.	LD 44+63	369 Roble-*1905*
Hunkins, Byron Churchill	Fresno	LD 90·33–13	202 Branner-*1468*
Hunkins, Wilfred Romayne	Fresno	Math. 90·87+66	202 Branner-*1468*
Hunnicutt. Leland George A.B., California, 1921	Whittier	Med. gr.	2401 Sacramento, SF-sf
Hunsberger, Clarita	Los Angeles	LD 89+131	Delta Delta Delta-*1325*

[23]Hunt, Leonard Wilbur	Palo Alto	Geol. sp. 94+0	331 Lincoln-p
Hunt, Leroy Lousley	Santa Barbara	LD 93+42	10 Sequoia-*805*
[134]Hunt, Robert Walter	Santa Barbara	Pre-Med. 120+71	358 Encina-*805*
Hunter, Charles Henry	Pt. Arena	LD 90+29	141 Toyon
Hunter, Howard E.	Breckenridge, Tex.	LD 25–24	208 Encina
[3]Hunter, Lewis Warren	Sacramento	LD 12–8	447 Encina
Huntington, Evelyn Hope A.B., Stanford, 1925	Palo Alto	Ed. G.A. 183+73	Chi Omega
Huntington, Herbert A. A.B., Stanford, 1923	San Francisco	Med. gr.	2504 Sacramento, SF-sf
[3]Huntington, Thomas W., Jr. A.B., California, 1916	S. Francisco	Sch. Ed. gr.	475 Forest-p
Huntington, Winifred	Los Angeles	LD 46+31	352 Roble-*1072*
[4]Hupe, Blanche Edna A.B., Lawrence, 1919	Grants Pass, Ore.	Sch. Ed. gr.	307 Roble
[4]Hurley, Charles Clifton A.B., Stanford, 1920, A.M., 1921	Albion	Law gr.	University Hotel-*1381*
Hurley, Peter R. A.B., Stanford, 1925	Albion	Law 5·179+30	512 Encina-*1381*
Hurst, Walter P.	Fillmore	LD 54–7	66 Sequoia-*937*
Husband, Richard David	Modesto	Chem.-Med.59·151+163	Toyon-*538*
[5]Hutchinson, Lester B.	Reading, Mass.	LD 139+90	221 Toyon-*655*
[4]Huxtable, Ethel Elizabeth B.S., Hastings, 1915	Burlingame	Sch. Ed. gr.	315 So. 7th, SJ-sj
Hyde, Virginia Florence	Chicago, Ill.	LD 99+113	342 Roble-*731*
Hyde, William Avery A.B., Stanford, 1924	Palo Alto	Min. gr.	334 Lincoln-p
[234]Hyland, Frank William	San Francisco	LD sp. 70+29	Delta Upsilon-*1353*
[5]Hyman, Wallace Audrey A.B., California, 1924	San Francisco	Law gr.	302 Union
Ichikawa, Yoshio A.B., Stanford, 1925	Hiroshima, Japan	Econ. gr.	Japanese Club-*598*
[4]Imrie, Jean Elizabeth	Berkeley	Educ ‡	335 Roble
Ingebretsen, James C.	Salt Lake City, U.	LD 38+*22*	435 Encina-*1615*
[12]Ingram, Fred R. A.B., Stanford, 1925	Palo Alto	C.E. 184+136	825 Cowper-p
[4]Ingram, Irwin	Lawrence, Kan.	Educ. ‡	138 Toyon
[23]Innes, Murray, Jr.	San Francisco	LD 22–13	*227* Encina
[4]Innes, Wells William A.B., Stanford, 1924	Santa Ana	Educ. gr.	Delta Kappa Epsilon
[1]Iriki, Keisuke	Oakland	LD 63+63	Japanese Club-*598*
Irvine, William	Stockton	LD 47+76	525 University-p
[5]Irving, Donald Riek	Hollywood	Min. 140+105	249 Toyon-*I*
Irwin, Clarence	Portland, Ore.	LD 92+157	*327* Emerson-p
[5]Irwin, Jacob Carney	Twin Falls, Ida.	Educ. 12·152+*27*	Breakers-*I*
[12]Irwin, John B., Jr.	Minneapolis, Minn.	Econ.15·140+49	DeltaUpsilon-*1353*
Irwin, Louise Christy	Long Beach	LD 78+54	*228* Roble-*1495*
Irwin, William Hyde A.B., Stanford, 1925	Brookdale	Ent. 196+125	55 Sequoia-*1004*
[5]Isaacs, Hart	Los Angeles	LD 54+0	317 Union-*2004*
[5]Isensee, Frank Paul	Baltimore, Md.	Law 161+45	Union
Israel, Delmer Truesdell A.B., Reed, 1924	Fairfield, Iowa	Law gr.	451 University-p
Israel, Harry Frederick	Mediapolis, Ia.	LD 47·45+65	451 Lytton-p

Issel, Joe Mike	San Francisco	LD 41–7	Menlo School, MP-mp
[13]Jackson, Ellsworth Harry	San Jose	LD 45·15+14	334 Auzerais, SJ-sj
Jackson, Kathleen C.	East Orange, N.J.	Econ. gr.	University Park-*949*
A.B., Vassar, 1924			
[4]Jackson, Marie Herbert	Los Angeles	Hist. gr.	337 Roble-*1101*
A.B., Stanford, 1911			
Jackson, Paul Edgar	Los Gatos	Pol. S. 95·37+10	14 Cabrillo-*1588*
[5]Jackson, Paul Riley	Redding	Law 154+166	203 Toyon-*21*
[4]Jacobs, Charlotte M.	Palo Alto	Engl. gr.	651 Lytton-p
A.B., Colorado State Teachers College, 1919			
Jacobs, Donald Porter	San Francisco	LD 41–1	436 Encina
[1]Jacobs, Hyme, Jr.	San Francisco	LD 12–19	202 Encina
Jacobs, William H.	Battle Creek, Mich.	LD 42·95+78	130 Branner-*1250*
Jacobson, David Samuel	Brawley	LD 40+12	118 Encina-*1811*
[234]Jaffee, Joseph Edward	Cincinnati, Ohio	Pol. S. 135·23+3	302 Union
James, David Henry	Denair	Econ. 72·108+14	89 Sequoia
A.B., Stanford, 1925			
James, David John	Los Angeles	Econ. 108–20	DeltaTauDelta-*1363*
James, Norris Edward	San Francisco	Pol. S.-Jn. 185–6	Al.Kap.Lambda
[5]James, Vern	Bloomington, Ind.	Math. gr.	604 Tennyson-p
A.B., Indiana, 1912; A.M., Columbia, 1916			
[1]Jameson, Moroni	Long Beach	LD 43–29	Base Hospital-p
[4]Jamison, Emma Van Noy	Santa Clara	Econ. 67·108+130	Roble
[5]Jankelson, Marvin A.	Far Rockaway, N.Y.	Econ. 97·61+3	Los Altos-la
[4]Jantzen, Daniel F.	Phoenix, Ariz.	Educ. gr.	615 University-p
A.B., Arizona, 1921			
[12]Jardine, Douglas Seymour	Pasadena	LD 27–20	417 Encina-*1552*
[4]Jarvis, Mary C.	Los Angeles	Hist. ‡	435 Coleridge-p
[5]Jayne, Burton Hilton	Palo Alto	Law 10·151+104	1827 Cowper-p
Jayred, Wallace Bierce	Pasadena	LD 91+52	Alpha Delta Phi-*JJ*
[12]Jeannin, Margaret Louise	Pasadena	LD 4·47+55	320 Roble
[4]Jeffers, Wayne Echard	Hume, Ill.	LD	Union
[4]Jenkins, Clarke Waterman	Kellogg, Ida.	Educ. gr.	Palo Alto
B.S., Idaho, 1924			
[23]Jenkins, Richard	Culver City	Chem.10·176+167	510Encina-*1831*
A.B., Stanford, 1925			
[23]Jenks, Elizabeth	Oakland	LD 15–29	232 Roble
[5]Jensen, James Marinus	Provo, Utah	Engl. gr.	706 Cowper-p
A.B., Brigham Young, 1913; A.M., Chicago, 1919			
Jensen, Milton B.	Mendon, Utah	Educ. gr.	505 Encina-*675*
B.S., Utah Agricultural, 1924; A.M., Stanford, 1925			
Jensen, Walter Harry	Vallejo	LD 87–11	226 Toyon-*H2*
Jergins, Allen Andrew	Los Angeles	Min. 195+60	Delta Upsilon-*1353*
A.B., Stanford, 1925			
Jergins, Merritt Dean	Los Angeles	LD 98+14	Delta Upsilon-*1353*
Jespersen, Holger Johannes	Palo Alto	M.E. ‡ 52–6	424 Lytton-p
[23]Jewell, Marion Richard	Palo Alto	M.E. 93+37	327 Waverley-p
Jimerson, Jack Richard	Payette, Ida.	Med. gr.	2217 Buchanan, SF-sf
A.B., Stanford, 1923			
Joaquin, Thomas Theodore	Sutter City	LD 38–9	321 Encina-*981*
Johannessen, Vaughn L.	Idaho Falls, Ida.	M.E. 133·47+51	723 Hamilton-p
A.B., Stanford, 1925			
[5]Johansen, Donald Alexander	Arcata	Bot. 185+168	214 Toyon-*989*
A.B., Stanford, 1925			

[5]Johnson, Arthur Beers — Palo Alto — LD 81+57 — 403 Kingsley-p
Johnson, Arthur Best — Huntington Beach — Econ. 102·46+41 — 514 Encina
[5]Johnson, Carl Loomis — Huntington Beach — Econ. 115·46+13 — 531 Hawthorne-p
Johnson, Charles Christian — San Francisco — Med. gr. — 2552 Sacramento, SF-sf
A.B., Stanford, 1924
Johnson, Edith Matilda — Tacoma, Wn. — LD 90+152 — Chi Omega-*1386*
[5]Johnson, Edna Mae — Sacramento — LD 15+15 — *223* Roble
[1]Johnson, Floyd Lemuel — Adin — LD 80–6 — 137 Branner
Johnson, Judith Ellen — Long Beach — LD 46+62 — 300 Roble-*1592*
Johnson, Kenneth Mitchell — San Jose — Law 90·45+*22* — 260 S. 3rd, SJ-sj
[4]Johnson, Lottiellen — Sacramento — Ed. G.A. 103·34+34 — Roble
Johnson, Melvin Harold — San Jose — Law 6·137+124 — 304 Toyon
Johnson, Milton James — Olds, Alberta — Econ. 135·50+*52* — Stan. Park-*1189*
A.B., Stanford, 1925
[4]Johnson, Nels Albert — Oakland — Educ. gr. — 205 Union-*14*
A.B., Pacific Union, 1916
Johnson, Oliver Wolcott — Los Angeles — Chem. gr. — 430 Tennyson-p
A.B., Stanford, 1921, Engineer, 1922
[134]Johnson, Radcliffe C. — Phoenix, Ariz. — LD 80+28 — Theta Delta Chi-*1828*
[5]Johnson, Samuel Raymond — Cupertino — Econ. 78+6 — Delta Tau Delta-*1363*
[4]Johnson, Thelma Gertrude — Napa — LD ‡ — 531 Harvard, M-m
Johnson, Walter Andrew — Los Angeles — LD 44–*2* — 418 Encina-*1753*
[1]Johnson, William — American Falls, Ida. — LD 41+10 — RFD, Box 86, mp
[23]Johnson, William E., Jr. — San Francisco — LD 25+13 — 208 Encina
[4]Johnson, William Merle — Palo Alto — Sch. Ed. gr. — 131 Lytton-p
A.B., Indiana, 1921
[13]Johnson, William Ruel, Jr. — Delta, Colo. — LD 60–10 — Phi Gamma Delta-*1324*
Johnston, Charles Francis — Los Angeles — LD 119–*20* — 325 Union
[4]Johnston, Edgar Grant — San Diego — Sch. Ed. gr. — 135 Toyon
Ph.B., Wooster, 1912; A.M., Columbia, 1922.
[4]Johnston, George Hield — San Mateo — LD ‡ — 130 Roblas, SM-sm
[14]Johnston, Harland Albert — Mountain View — Hist. gr. — Mountain View-mv
A.B., Union, 1918
[12]Johnston, Madeline — Tacoma, Wn. — Med. gr. — 25 6th Ave., SF-sf
A.B., Reed, 1919
[3]Johnston, Rose Richmond — Palo Alto — Psych. gr. — Cardinal Hotel-p
A.B., Columbia, 1919, A.M., 1921
[5]Johnston, Russell Reuben — San Jose — Educ. gr. — 86 N. 8th, SJ-sj
A.B., Stanford, 1922
Johnston, William Barksdale — Fresno — LD 43+26 — 141 Encina-*1140*
Johnston, William R. — San Francisco — LD 71+1 — Alpha Delta Phi-*1289*
[23]Jones, Frank — Appleton, Wis. — Engl. 102·29+43 — 525 Channing-p
Jones, Fred Norman — Victor, Colo. — Chem. 144+70 — 213 Toyon-*1855*
[4]Jones, Hally Foster — Eureka — LD ‡ — 369 Roble
Jones, Louis Ernest — Roseville — Med. gr. — 2011 California, SF-sf
A.B., Stanford, 1924
Jones, Malcolm Nixon — San Bernardino — LD 89+151 — 207 Branner-*1013*
[4]Jones, Marvin Lee — Peoria, Ariz. — Educ. gr. — RFD, Box 212, p
B.S., Kansas State Teachers College, 1925
Jones, Ralph Joseph — Calgary, Canada — Econ. 180+35 — *229* Branner-*1300*
A.B., Stanford, 1925
Jones, Thorold Aldred — Chicago, Ill. — Geol. ‡ *32–22* — 87 Sequoia-*1181*
[4]de Jong, Charles M. van Zyll — S. Francisco — Math. gr. — 768 7th Ave., SF-sf
A.M., Royal Military Academy, 1900

[12]Jongeneel, Frances Alberta Berkeley Econ.23·106+41 AlphaOm.Pi-*1367*
[34]Jordan, Eric Knight Stanford Univ. Geol. 221+212 690 15th Ave., SF-sf
Jordan, Ruth Esther San Francisco LD 7·89+95 Kappa Al.Theta-1336
Judd, Grace Glendale Hist. 9·172+205 Del.Del.Del.*1325*
A.B., Stanford, 1925
[4]Juliani, Harry Prescott, Ariz. Law ‡ *232* Union
[4]June, Perry Ellsworth Peoria, Ariz. Educ. gr. RFD, Box 212, p
A.B., Colorado College, 1916
Junkert, Wilhelm E. Stanford Univ. LD 73–2 16 Branner
Kackley, Evan Morgan Long Beach LD 92+94 87 Sequoia-*1110*
Kahn, Edgar Myron San Francisco Econ. 183+10 211 Union-*727*
A.B., Stanford, 1925
Kalenborn, Margaret Redwood City LD 45+50 376 Roble
Kamm, Katherine Fresno LD 43–7 103 Roble-*702*
[2]Kane, Bernard Evanue Kane, Pa. LD 108·31–2 340 Embarcadero-p
Karr, Frank Randolph Los Angeles Law 123+20 *232* Branner-*1676*
[4]Kartsaklides, Vasileo Arcadia, Greece LD ‡ Palo Alto Hotel
Kaseberg, John Kenneth Portland, Ore. LD 45+57 401 Encina-*808*
[1]Kauffman, Don Hofius Des Moines, Ia. LD 4·15+27 347 Encina-*1804*
[4]Kavanagh, Cyril Robert Santa Clara Educ. gr. Santa Clara Univ.,SC-sc
A.M., Gonzaga, 1922
[3]Kavanaugh, Charles R. Tucson, Ariz. LD 13+18 444 Encina-*2028*
Kay, Raymond Myer Los Angeles Pre-Med. 129+122 202 Toyon-*I*
[4]Keach, Frances Lucile Los Angeles LD ‡ Roble
[13]Keating, Hallie Joyce San Francisco LD 27+4 146 Roble
Keeler, Leonarde Berkeley LD 14·40–1 Santa Cruz, MP-*2021*
Keene, Beryl Monroe Los Angeles Law 47·62+25 Al.TauOmega-*1384*
[23]Keerl, Robert Denison Los Angeles LD 28–13 218 Encina-*1654*
Keesling, Wana Myrle Campbell Engl. 180+116 AlphaOm.Pi-*1367*
A.B., Stanford, 1925
[3]*Kefauver, Grayson Neikirk Fresno Educ. gr. 417 Shields, F-f
A.B., Arizona, 1921; A.M., Stanford, 1925
[12]Keil, William Frederick Bachelor LD 117+10 240 Branner-*1983*
Keith, Frank Allen, Jr. Los Angeles LD 83–3 Alpha Delta Phi-*J*
[3]Kellar, Dorothy A. Midlothian, Ill. Germ. gr. 915 Channing-p
A.B., Stanford, 1924
Keller, Martha Eleanor Lancaster, Pa. Engl. gr. Madroño-*562*
A.B., Vassar, 1924
Kelley, Harold Huffman So. Pasadena LD 44+52 *224* Encina-*2042*
Kelley, Kenneth San Jose LD 45+57 Box 1302, SJ-sj
[5]Kelley, Kenneth Keith Palo Alto Chem. gr. 420 Florence-p
A.B., Stanford, 1923, A.M., 1925
Kellogg, Clyde W. Rock Springs, Wyo. LD 63·33+6 408 Encina-*O*
Kellogg, Frederick Palo Alto LD 97+129 Al.KappaLambda-*658*
Kellogg, L. Frank Santa Ana Math. gr. 25 Sequoia-*688*
A.B., Stanford, 1924
[5]Kelly, Adelaide Frances Palo Alto Ed. G.A. 18·118+68 909 Cowper-p
[1]Kelly, James Bryden Palo Alto Ent. 190+31 Kappa Sigma
A.B., Stanford, 1925
Kelso, George C. Palo Alto Zool.-Med. 181+33 151 Melville-p
A.B., Stanford, 1925
[5]Kemnitzer, Luis Emmett Oakland Geol. 4·161+101 DeltaUpsilon-*1353*
[4]Kemp, Charles F. Breckenridge, Mich. LD ‡ 320 Union

[4]Kemp, Etheleen Frances A.B., Minnesota, 1910, A.M., 1911	Los Angeles	Educ. gr.	166 Roble
[5]Kenaston, John Frederick	Santa Monica	LD 37–12	225 Encina
Kengel, Edward Francis	Los Angeles	LD 42+27	207 Encina-*2041*
[4]Kennedy, Ella Mae A.B., Oberlin, 1921	Xenia, Ohio	Sch. Ed. gr.	425 Embarcadero-p
Kennedy, Harry Fowler A.B., Stanford, 1925	Phoenix, Ariz.	Econ. 180+9	Kappa Alpha
[4]Kennedy, Robert Bankert A.B., Stanford, 1924	San Jose	Educ. gr.	841 Willis, SJ-sj
Kenney, John Edward	Venice	LD 74+32	Phi Delta Theta-*1334*
Kenney, William John	Pebble Beach	Law 6·139+44	Sig.AlphaEps.-*1305*
Kent, Arthur Harold A.B., Southern California, 1917; J.D., Stanford, 1925	Palo Alto	Law gr.	706 Cowper-p
Kerr, James William	Los Angeles	Educ. 122+21	DeltaTauDelta-*1363*
[4]Kevin, Katharine A.B., Sacred Heart, 1924	Menlo Park	Engl. gr.	Menlo Park-mp
Keyes, Richard Gale	Winslow, Ariz.	Econ. 90·45+36	Sig.Al.Eps.-*1305*
Khazoyan, Aram Haig A.B., Stanford, 1925	Pasadena	Econ. 102·82+8	242 Branner-*1011*
[4]Kidder, Alice Kathryn B.S., Oregon Agricultural, 1924	Whitesan, Ore.	Sch. Ed. gr.	358 Roble
[4]Kiech, Veon Carter A.B., New Mexico, 1924	Albuquerque, N.M.	Chem. gr.	Kappa Sigma-*1326*
Kildale, Doris Kell	Eureka	S. Biol. 90·56+96	111 Roble-*922*
[3]Kiler, Elza Leslie A.B., Stanford, 1924	Santa Barbara	Ed. G.A. gr.	251 Hawthorne-*1661*
Kiltin, Russell A.B., Stanford, 1925	Duluth, Minn.	Hist. 5·175+190	513 Encina
Kimball, Isabel Jane A.B., Stanford, 1925	Ithaca, N.Y.	LD 107·96+2	263 Roble-*1038*
[4]Kimball, Susan Florence A.B., Southern California, 1925	Los Angeles	Engl. gr.	261 Roble
Kimmel, Henry Arden A.B., Stanford, 1925	Sparks, Nev.	Pre-Clin. 135·48+12	233 Union
King, Clarence Van H.	San Francisco	LD 120+4	Chi Psi-*N*
[234]King, David Litchard	Portland, Ore.	Hist. 10·106+11	Chi Psi-*N*
King, Donald Eliot A.B., Stanford, 1923	Mayfield	Med. gr.	Box 157, m
King, Douglas Low	Palo Alto	Law 147+223	Ravensw'd-Bx505,p
King, Edward D. A.B., Stanford, 1924	Stanford Univ.	Cl. Lit. gr.	534 Encina-*1663*
King, Ernest Charles A.B., Stanford, 1925	Mountain View	M.E. 3·199+63	Mountain View-mv
King, Guy Russell	Palo Alto	LD 98+13	651 Gilman-p
King, Harold George	Dinuba	Law 133+63	Sigma Chi-*628*
King, Harold Nelson	Sacramento	Econ. 22·119+52	241 Hawthorne-p
[234]King, Henry James A.B., Missouri, 1912, A.M., 1913	Fresno	Chem. gr.	11 Union
[4]King, Mabel Lyda A.B., Stanford, 1902	Palo Alto	Ed. G.A. gr.	651 Gilman-p
King, Robert Wade	Lima, O.	LD 43+17	137 Encina-*1961*
King, Thomas Scott	San Diego	Econ. 58·83+23	ThetaDeltaChi-*T*
King, Vern Elwood	Pendleton, Ore.	LD 49+37	210 Encina
[1]King, Waldemar Bryant	Petaluma	Econ. 12–21	PhiSigmaKappa-*538*

King, Willard Parks	Martinsville, Ind.	Engl. 95·45+11	11 Salvatierra
Kingsbury, Mary Josephine	Mesa, Ariz.	Hist. 93·48+49	Gam.PhiBeta-*1337*
Kinkead,Dorothy Elizabeth	Paola, Kans.	Econ.132+16	GammaPhiBeta-*1337*
Kinkead, Robin	Palo Alto	LD 46+20	236 Encina
Kinkel,Arthur Rudolph, Jr.	Los Angeles	LD 44+32	444 Encina-*1484*
Kinnear, Arthur	San Jose	LD 171+14	421 N. 4th, SJ-sj
[4]Kinney, Fred S.	Modesto	Educ. gr.	226 Union
B.S., South Dakota, 1905			
[1]Kinney, Roland Thomas	Los Angeles	Law gr.	Zeta Psi-*B*
A.B., Stanford, 1922, J.D., 1925			
Kinnison, Court John	Stockton	M.E. 174+117	26 Sequoia
[3]Kirk, Howard M.	Bozeman, Mont.	Geol. gr.	Sequoia-*643*
A.B., Stanford, 1924			
Kirkbride, Audrey Martha	San Francisco	LD 90+25	Delta Delta Delta-*1325*
[4]Kirkpatrick, Marjorie L.	Clarendon,Pa.	LD ‡	832 Kipling-p
Kirwan, Nicholas Pierce	Los Angeles	Econ. 126–13	Phi Gamma Delta
Kissinger, J. Byron	Los Angeles	LD 10·81–2	Beta Theta Pi-*1335*
Kitow, Edwin K.	Tokyo, Japan	LD 138–6	Japanese Club-*598*
Klahn, Ruth Lenore	Orange	Phil. 90·94+101	318 Roble-*556*
A.B., Stanford, 1925			
Klauber, Allan Salz	San Diego	LD 94+69	213 Toyon
Klauber, Eleanor Barrett	San Diego	S. Biol. 138+102	Del.Del.Del.-*1325*
Klein, Herbert Arthur	Los Angeles	LD 50+69	127 Encina-*1852*
Kleinsorge, Paul Lincoln	Sacramento	LD 93+157	239 Toyon-*1017*
Klink, Carol	San Francisco	Engl. 186+230	Alpha Phi-*1387*
A.B., Stanford, 1925			
[4]Klocksen, Marian Leathers	Palo Alto	LD	343 Kellogg-p
Knapp, Gordon Lampman	Los Angeles	LD 89+53	561 Middlefield-p
Knapp, Joseph Grant	Loveland, Colo.	Econ. gr.	1027 Waverley-*1593*
B.S., Nebraska, 1922			
Knapp, William Frederick	Chicago, Ill.	Law 82·55+25	223 Toyon-*1553*
[3]Knight, Cecil Gordon	San Leandro	LD sp. 14+0	136 Encina
[4]Knight, Eugene Morrison	Mayfield	LD ‡	341 Yale, M-m
Knight, Helen Margaret	San Francisco	Span. gr.	Delta Delta Delta-*1325*
A.B., Stanford, 1925			
[4]Knoles, Lorraine	Stockton	Sch. Ed. gr.	Roble
A.B., College of the Pacific, 1921			
[3]Knott, Robert F.	Los Angeles	LD sp. 14–3	347 Encina
Knowles, Dorothy E.	San Francisco	Engl. 90·45+46	170 Roble
Knowles, Violet Virginia	Los Angeles	Math. gr.	Madroño-*536*
A.B., Stanford, 1924, A.M., 1925			
Knox, Irene E.	Redlands	Med. gr.	2101B Webster, SF-sf
A.B., Redlands, 1922			
Knox, Wallace William	Beaver, Utah	Law 139+119	Phi Kappa Psi-*1333*
Koepfli, Joseph Blake	Los Angeles	Chem. gr.	Alpha Tau Omega-*1384*
A.B., Stanford, 1924, A.M., 1925			
Kohler, John A.	Hollywood	LD 45·130+10	Sigma Nu-*1385*
[12][4]Konishi, William Hiroshi	Lemoore	M.E. 192–2	228 Toyon-*598*
Korn, Kenneth Ernest	Piedmont	M.E. 142+62	28 Sequoia
Kornfeld, Moses Marion	Tulsa, Okla.	Geol. ‡ 50–6	500 Encina-*1622*
Kostko, Jaroslaw K.	Palo Alto	E.E. gr.	537 Hamilton-p
Licencié ès Sciences, University of Paris, 1904; Electrical Engineer, Institute of Electrotechnics, Paris, 1906; Engineer, Stanford, 1925			
[4]Kotter, Guinivere Ellen	Brigham City,U.	Educ. gr.	Sigma Kappa
B..S, Utah Agricultural, 1925			

[2]Kraemer, Eric Eugene A.B., Stanford, 1925	San Diego	M.E. 185+4	DeltaKappaEps.-*1306*
[1]Kragrud, Roy Arthur	Winnett, Mont.	LD 8–7	120 Encina-*1604*
Kramar, Lowell Graft A.B., Whittier, 1923	Redlands	Med. gr.	S.F. Hospital, SF-sf
Kranzthor, Gregory M.	El Paso, Tex.	Law 48·91+63	22 Sequoia
Krogness, Melville Arthur A.B., Stanford, 1925	San Francisco	Econ. 180+65	223 Union-*628*
Krohn, Kenneth Giles	Raymond	LD 86–2	Sigma Nu-*1385*
Kropp, Donald Joseph	San Francisco	Law 131+56	32 Sequoia-*2015*
Krotz, Donald Philip	Midwest, Wyo.	Chem. 135+34	106 Branner-*1095*
Krueger, Albert Paul A.B., Stanford, 1925	San Francisco	Zool-Med.4·187+343	Post,SF-*1211*
[12]Kruse, Arthur George	Kauai, T.H.	LD 16–12	208 Encina-*1606*
[4]Kuckein, Ernest Prussing	Palo Alto	LD sp. 10·48–27	819 Homer-p
[12]Kuhnel,Gustaf Lawrence	San Francisco	Econ. 140–19	536 Encina-*1*
[13]Kulmann, Charles Albert	Palo Alto	M.E. 136+72	1081 Ashby-*1047*
[4]Kulzer, Irene Leona A.B., State College of Washington, 1923	Valley, Wn.	Engl. gr.	256 Roble
[234]Kuney, Edith Carter A.B., Willamette, 1909	Salem, Ore.	Span. gr.	Sigma Kappa-*23*
[5]Kunzel, Fred	San Diego	Law 58·121+25	Zeta Psi-*B*
[1]Kurihara, Masuo	San Francisco	LD 33–14	Japanese Club-*598*
Kurtz, Edward Fulton	Pasadena	M.E. 43·103+130	Sig.Al.Eps.-*1305*
[4]Kusch, Eva Mae A.B., Fresno State Teachers College, 1924	Fresno	Ed. G.A. gr.	161 Roble
Kwaan, Tim On	Shanghai, China	LD 50–13	Chinese Club-*1765*
Kylberg, Brother Lars	Merced	Econ. 164+94	213 Union
[4]La Bar, Eva A.B., Redlands, 1923	Porterville	Pol. S. gr.	274 Roble
[4]La Clair, Olive Rebekah B.S., California, 1912	Ontario	Engl. gr.	308 Roble
[23]La Forge, Edward Charles A.B., Stanford, 1925	Oakland	Fr. 132·48+25	269 Mather, O-o
Lagodzinski, Lewis A.B., Stanford, 1925	Stanford Univ.	C.E. 6·181+198	4 Sequoia
[5]Lamb, Henry Clarence A.B., Stanford, 1925	Fallbrook	Pol. S. gr.	242 Toyon
[12]Lamb, James Maynard	Fallbrook	LD 53–17	128 Branner-*105*
[1]Lamb, Malcolm Winslow	Oakland	LD 86+114	Alexandria Hotel-p
[5]Lambert, Louise A.B., Redlands, 1924	Redlands	Engl. gr.	Madroño-*1647*
Lamson, David Albert A.B., Stanford, 1925	Palo Alto	Hist. 180+228	319 Poe-*15*
[12]Landers, Virginia Beatrice	Arvin	LD 26+9	169 Roble-*1557*
[4]Landis, William Albert B.S., Chicago, 1914; A.M., Columbia, 1920	Altadena	Educ. gr.	135 Toyon-*1426*
[4]Landreth, Austin A.B., Indiana, 1919	Pendleton, Ore.	Educ. gr.	Euclid-p
Lane, Harland Boyd	Alexis, Ill.	LD 45·46+9	727 Bryant-p
Lane, Warren Graham	Aberdeen, Wn.	LD 78–6	Phi Gamma Delta-*1324*
Lang, Richard E.	Seattle, Wn.	LD 91+57	28 Branner-*1863*
Langer, Bernard Franklin	San Francisco	LD 151+176	217 Branner-*1025*
[1]Langley, Rolland Ament	Atascadero	Law 100+46	AlphaSigmaPhi-*1357*
[5]Lani, Thelma Rose	Elko, Nev.	LD 93+88	224 Roble-*1435*

[4]Lannis, Violet Lenore	Cupertino	Ed. G.A. ‡	Cupertino-c
[5]Lapiere, Richard Tracy	Claremont	LD 10·78+111	250 Toyon-*970*
[3]Lapp, Burton Leonard	Oakland	Law 174–7	540 Encina
Larnach, Donald W. P.	Honolulu, T.H.	E.E. gr.	332 Union-*67*
A.B., Stanford, 1924, Engineer, 1925			
[23]Larsen, Arthur Christian	San Francisco	LD 25–2	353 Encina
Larsen, Robina Henry	Palo Alto	LD 46+46	769 Bryant-p
Larson, Norman Grant	Berkeley	LD 47+52	301 Encina-*1673*
Larter, Mortimer Treat	Hollywood	LD 45+51	246 Encina
[5]Laslett, Herbert R.	Palo Alto	Psych. gr.	373 Channing-p
A.B., Kansas, 1918; A.M., Stanford, 1923			
La Tourrette, Clinton	Lakota, N.D.	Law 90·91+80	133 Toyon-*822*
A.B., Stanford, 1925			
Laub, Egbert Warren	Santa Cruz	Econ. 195+55	146 Toyon-*1103*
A.B., Stanford, 1925			
[4]de Laubenfels, Max W.	Pasadena	Zool. gr.	Pacific Grove-pg
A.B., Oberlin, 1916			
[12]Lauer, Donald Taylor	Payette, Ida.	Law 180+295	315 Alma-p
A.B., Stanford, 1925			
[4]Laughlin, Cora J.	Lomita	Sch. Ed. gr.	832 Kipling-p
A.B., Fairmount, 1911			
[5]Laughlin, H. Sidney	Los Angeles	Law 9·181+0	311 Union
[2]Laughlin, Homer, III	Los Angeles	LD 23–20	13 Salvatierra
[12]Lavelle, Michael James	Los Angeles	Law 29·180+34	207 Union-*1182*
LL.B., Stanford, 1925			
[1]Law, Raymond Frakes	Palo Alto	Phil. 52·128+50	631 Emerson-p
A.B., Stanford, 1925			
Lawler, William Horace	Gardena	Med. gr.	2100 Pine, SF-sf
A.B., Southern California, 1923			
Lawrence, David Reed	So. Pasadena	Engl. 120·64+59	52 Sequoia-*1116*
A.B., Stanford, 1925			
Lawrence, Frances	Hollywood	Bact. 6·112+129	201 Roble-*597*
Lawrence, Grove	San Mateo	E.E. gr.	Theta Xi-*1355*
A.B., Stanford, 1925			
Lawson, James Wilmer	Long Beach	LD 107+3	Del.KappaEpsilon-*OO*
[4]Lawson, Oliver C.	Palo Alto	Zool. 129–13	627 Homer-p
Lazarus, Lawrence Henry	Los Angeles	LD 48+76	250 Encina-*1793*
[5]Lazier, Richard Frederick	Los Angeles	Econ. 9·153+164	249 Toyon-*706*
[5]Leach, Claude Elijah	Placentia	LD 43+0	400 Encina-*1684*
Learnard, Polly Dee	Gilroy	Econ. 193+213	205 Roble-*1028*
A.B., Stanford, 1925			
Lease, Helen	Santa Cruz	LD 50+77	370 Roble-*1009*
[4]Leavell, Gladys L.	Lincoln	Econ. gr.	1027 Bryant-p
A.B., California, 1923			
[5]Lederman, Edward D.	San Francisco	LD 21·67+27	216 Toyon
[234]Lee, Allan Morris	San Mateo	LD ‡ 28–18	301 Encina
Lee, Edwin Augustus	Berkeley	Educ. gr.	1552 LeRoy, B-b
B.S., Columbia, 1913, A.M., 1915			
Lee, Frederick Billings	New York, N.Y.	LD 45+35	129 Encina-*525*
[234]Lee, Ira Condit	Los Angeles	Educ. gr.	Chinese Club-*1033*
A.B., California, 1924			
[12]Lee, James Fletcher	Los Angeles	LD 29+13	444 Encina-*1163*
Lee, John Doulton	Auburn	LD 80–11	83 Sequoia-*1158*
[3]Lee, Mary	Palo Alto	LD 8–5	505 Everett-p

Lee, William G., Jr. A.B., Stanford, 1925	Auburn	M.E. 7·186+61	83 Sequoia-*1158*
Leeds, F. Barclay A.B., Stanford, 1924	Stanford Univ.	Law gr.	Kappa Alpha-*1356*
Leete, Stuart Allen	Lodi	LD 47·40+14	309 Encina-*852*
LeFeber, Lloyd Dana	Lodi	LD 25–15	205 Encina
[23]Lefranc, Nelty Delmas	San Jose	LD 45·28+6	307 Roble
Leicester, Henry Marshall	San Francisco	LD 82+63	257 Toyon
[4]Leidig, Phyllis R. A.B., California, 1923	Ogden, Utah	Sch. Ed. gr.	Roble
Leistner, Hugo	Palo Alto	LD 99+9	116 Toyon-*1737*
[234]Leiter, John Arthur	Portland, Ore.	LD 91+109	239 Branner
Lentz, Wallace	Missoula, Mont.	M.E. 92·49+17	38 Sequoia-*582*
Leonard, Curtis Bernard A.B., Stanford, 1925	Balboa	Pol. S.-Jn. 94·86+2	14 Sequoia-*573*
[2]Leonard, Frank Albert, Jr. A.B., Occidental, 1923	Redlands	Law gr.	555 Waverley-p
[234]Leonard, J. Rollin A.B., Stanford, 1924	Redlands	Econ. gr.	213 Union
Leonard, Maurice E.	San Francisco	LD 78+37	17 Toyon-*2043*
[34]Lerrigo, Frank Charles	Topeka, Kans.	LD 16+19	215 Toyon
Leve, Lewis Hayd LL.B., Stanford, 1925	Palo Alto	Law 46·164+243	407 Cowper-*962*
Levi, John Newmark	Los Angeles	LD 101+26	227 Branner-*2003*
[3]Levi, Leon Herman	Los Angeles	LD 15+8	39 Encina-*2003*
[23]Levin, Walter B.	San Francisco	LD 21–4	105 Encina
[12]Levis, William Kent	Selma	Pre-Med. 93·26–2	105 Emerson-p
[4]Levison, Dorothy Henrietta	S. Francisco	LD ‡	Roble
Levison, George Lewis	San Francisco	LD 38–24	229 Encina
Levit, Bertram William A.B., Stanford, 1924, J.D., 1925	San Francisco	Law gr.	318 Union-*1582*
Levit, William Harold	San Francisco	LD 45+46	323 Encina-*1582*
Levy, Adolph Haffenberg	Los Angeles	LD 49+7	21 Encina-*1791*
Levy, Lionel Annis	Joplin, Mo.	LD 47+37	21 Encina-*1623*
[3]Levy, Yvonne Elise	San Mateo	LD ‡ 4–14	
Lewis, Frank MacBoyle	Portland, Ore.	LD 48+11	409 Encina-*1981*
[4]Lewis, Hazel May	Bellingham, Wn.	LD ‡	336 Roble-*1092*
[124]Lewis, Helen Marion	Honolulu, T.H.	Engl. 24·99+112	265 Roble-*535*
[13]Lewis, Kenneth Ellsworth	Dinuba	LD 57+5	202 Branner
Lewis, Percy Williams	La Grange, Ill.	Chem.7·135+32	Al.Kap.Lamb.-*658*
[12]Lewis, Rhoda Valentine	Honolulu, T.H.	LD 86+150	284 Roble-*535*
Lewis, Richard Campbell A.B., Stanford, 1925	Mountain View	M.E. 206+85	Mountain View-mv
Lewis, Robert Ernest	Stanford Univ.	Law 190+204	231 Union-*533*
Lewis, Sidney William	Burlingame	LD 80+16	Theta Delta Chi-*T*
[5]Liang, Chao Wei	Peking, China	Pol. S. 90·43+9	Chinese Club-*6*
Licking, William Errol LL.B., Stanford, 1925	Battle Mt., Nev.	Law gr.	235 Toyon
[124]Liebendorfer, Donald Eugene	Modesto	Econ. 164+69	223 Union-*1652*
Lifchetz, Martin A.B., California, 1924	Los Angeles	Med. gr.	105 Emerson-p
Liljencrantz, Eric Guy A.B., Stanford, 1925	Aptos	Pre-Clin. 135·49+54	615 Univ.-p

Lilly, Robert Tompkins — Balboa — LD 45+15 — 422 Encina-*1942*
Lindblom, Evald Vincent — San Jose — Econ. 104+35 — 231 Branner
[4]Lindsay, Mary Drennan — Burlingame — Educ. gr. — 1012 Drake, B-b
A.B., Vassar, 1909, A.M., Pennsylvania State, 1910
Lindsay, Robert William — Stanford Univ. — LD 48+25 — 108 Encina
Lindsey, Hugh Miller — Modoc, Ind. — Law 189+182 — 90 Sequoia-*64*
A.B., Stanford, 1925
Lindsey, Melzar Mosse — Santa Monica — LD 46·45+48 — 336 Encina-*1137*
[2]Line, George DeWitt — Blackfoot, Ida. — LD 35–9 — 257 Toyon
Linneman, Lawrence Joseph — Watsonville — Law 191+23 — 132 Toyon
A.B., Stanford, 1925
[4]Linstad, Lina Louise — Clearbrook, Minn. — Sch. Ed. gr. — Roble
B.S., Minnesota, 1924
Lippincott, Gardner P. — Hollywood — Econ. 131+25 — Beta Theta Pi-*1335*
Lissman, Marcel Alfred — Sacramento — M.E. 50·153+329 — 4 Sequoia
A.B., Stanford, 1925
Lissner, Jay Greenhood — Washington, D.C. — LD 39+21 — 362 Encina-*1812*
[4]Littel, Charles Lester — Centralia, Wn. — Educ. gr. — Phi Sigma Kappa
A.B., Nebraska, 1912
Little, Berneice Marjorie — Eureka — LD 48·40+55 — 279 Roble
[5]Little, Malcolm Cutler — Nogales, Ariz. — Econ. 105·51+17 — Delta Chi-*1034*
Littler, Robert — Palo Alto — Pol. S. 90·95+126 — 235Webster-*1562*
A.B., Stanford, 1925
Litton, Charles Vincent — Redwood City — E.E. gr. — RFD 2, Box 21, rc
A.B., Stanford, 1924; Engineer, 1925
Lloyd, Edward Warren — Los Angeles — Law 142+186 — Alpha Delta Phi-*JJ*
Lockett, Charles G. — Alhambra — Law 116+34 — AlphaSigmaPhi-*1357*
[12]Lockton, Eugene Andrew — Windsor — M.E. 168+21 — Al. Kap. Lambda-*658*
Loe, Harris Davis — Fort Collins, Colo. — Pre-Med. 176+55 — 132 Toyon-*605*
Lofland, Evelyn — Whittier — Psych. 8·127+90 — 216 Roble-*1048*
Logan, William Archie — San Diego — Econ. 14·166+143 — PhiD.The.-*1334*
A.B., Stanford, 1925
Lombard, George Porter — Yakima, Wn. — Law 180+41 — PhiGammaDelta*1324*
A.B., Stanford, 1925
[4]Lonborg, Arthur C. — Topeka, Kans. — LD sp. — 115 Alma-p
Londahl, Cyrus Ansgar — San Francisco — Law 165+30 — 34 Sequoia
[1]Long, Eldon Addington — Stanford Univ. — M.E. gr. — 312 Union-*1105*
A.B., Stanford, 1924
[5]Long, Harold Boyd — Norcatur, Kans. — Hist. gr. — 561 Middlefield-p
A.B., Stanford, 1925
[12]Long, John Townsend — Los Angeles — LD 15+17 — 231 Encina
[12]Long, Merrill Edward — Sacramento — LD 76–10 — Phi Gamma Delta-*1324*
[12]Longyear, Richard Patton — Altadena — LD 60–14 — 525 Channing-*564*
[12]Loomis, Francis Butler, Jr. — Palo Alto — Econ. 67·113+71 — 375 Waverley-p
A.B., Stanford, 1925
Loose, Warren Dean — Provo, Utah — Law gr. — Phi Kappa Psi-*1333*
A.B., California, 1922
[5]Loper, Margaret — Fresno — Engl. 95·125–14 — 236 Roble-*1387*
[4]Lord, Francis Everette — Kewanna, Ind. — LD ‡ — 225 Toyon
Lorraine, Laura May — Palo Alto — Span. 182+241 — 460 Homer-p
A.B., Stanford, 1925
[1]Lothrop, Marcus — San Bernardino — M.E. gr. — Sequoia-*32*
A.B., Stanford, 1924
Love, Mary Craven — Riverside — Math. 180+124 — 163 Roble-*1104*
A.B., Stanford, 1925

[13]Lovekin, Charlotte	Riverside	LD 76+84	KappaAlphaTheta-*1336*
Lovelace, Manuel Burr	Dinuba	LD 131+20	Zeta Psi-*B*
Low, John Stewart	Berkeley	LD 46+15	246 Encina-*506*
[12]Lowers, Thomas Huston, Jr.	Los Angeles	LD 62+43	111 Branner
Lowry, Richard Simms	Oakland	LD 45+39	349 Encina
Lozano, Marion Thais	Reno, Nev.	LD 45+26	246 Roble
[1]Lucas, William D.	East Olympia, Wn.	Econ. 10·109–12	Chi Psi-*588*
[5]Luce, Erma Christianna	San Francisco	Hist. 59·71+6	Kap.Al.Theta-*1336*
Luckhardt, Charles Edward A.B., Stanford, 1925	San Jose	Law 45·137+35	298 S. 12th, SJ-sj
Ludeke, Frederic Sebastian A.B., Stanford, 1924	Shandon	Law gr.	543 Encina-*732*
[4]Ludemann, Rebecca	Palo Alto	Ed. G.A. ‡	539 Lincoln-p
Lundborg, Louis Billings	Billings, Mont.	LD 81+146	Sigma Chi-*628*
[4]Lunde, Robert	Lake Mills, Iowa	Educ. gr.	114 Toyon
[4]Lundkrist, Emil Alexander Bethel Seminary, 1906	Fresno	Econ. gr.	951 Channing-p
Lundquist, Dell Theodore A.B., Stanford, 1922	Middletown	Med. gr.	S.F. Hospital, SF-sf
Lundquist, Ida Marie	Middletown	LD 9·44+52	101 Roble-*1237*
Lundy, Robert Floyd	San Jose	LD 46+23	160 Yosemite, SJ-sj
[5]Lunt, Kathryn Chase	Los Altos	LD 37–7	Los Altos-la
Lusignan, Harry Richard A.B., Stanford, 1925	Stockton	Zool.-Med.184+60	57 Sequoia-*876*
Luster, Edmund Clark	San Francisco	LD 27–32	239 Branner-*1437*
Luther, Chester Francis	Auburn	LD 45+60	128 Encina-*1934*
Lyne, Walter C., Jr.	Salt Lake City, U.	Chem. 129+12	Phi Sig. Kap.-*538*
[1]Lynn, Harold Frederic A.B., Stanford, 1924, A.M., 1925	Palo Alto	Geol. gr.	181 Tasso-p
Lyon, Barbara	Burlingame	Fr. 100+90	Sigma Kappa-*1327*
Lyon, Lucile	Burlingame	LD 76+124	Sigma Kappa-*1327*
Lysaght, George William A.B., Stanford, 1924, A.M., 1925	San Francisco	Econ. gr.	303 Union-*1046*
Lysle, Joseph Archibald	Santa Ana	LD 45+24	303 Encina-*1496*
[1]Lytel, Harvey Maxwell	Tulsa, Okla.	LD sp. 99–4	Delta Chi-*1304*
[23]Maas, Walter Leo, Jr.	Santa Monica	Law 75·57–6	309 Union-*1106*
[1]Mabley, Lawrence H.	San Luis Obispo	LD 6 15	249 Encina
Macabee, Lloyd Cedric	Hayward	LD 94+6	5 Sequoia-*1239*
McAllister, Charles H.	San Francisco	LD 93–3	Kappa Sigma-*1326*
[4]McAllister, Erford Ansel A.B., College of the Pacific, 1922	San Jose	Hist. gr.	Redwood City-rc
§McAllister, Harold H.	Salt Lake City, U.	LD 73–14	544 Encina-*86*
McBride, Rexford W. A.B., Stanford, 1923	San Francisco	Med. gr.	2424 Washington, SF-sf
McBride, Ruth Adella A.B., Stanford, 1925	Berkeley	Law gr.	Gamma Phi Beta-*1337*
McBurney, Raymond Dean A.B., Stanford, 1924	Los Angeles	Med. gr.	2319 Webster, SF-sf
McCahan, Kathryn Cochran	Los Angeles	Hist. 153+69	Alpha Phi-*1387*
[4]McCall, James Sadler	Tucson, Ariz.	LD 6–3	347 Ramona-p
McCall, Ralph Comins	Pasadena	LD 43+32	116 Encina-*1817*
McCallister, Charles H. A.B., Stanford, 1925	Long Beach	S.Biol.-Med.9·182+77	PKPsi-*1333*

§ Deceased May 2, 1925

[12]McCallum, Robert E.	Menlo Park	LD sp. 46–21	Menlo Park-mp
McCandless, William W.	Los Angeles	Econ. 180+23	Chi Psi-*N*
A.B., Stanford, 1925			
McCanse, Mabel Letitia	Santa Rosa	Hist. gr.	Manzanita-*713*
A.B., Stanford, 1924, A.M., 1925			
McCardle, Marion	Fresno	LD 44+4	324 Roble-*547*
[5]McCargar, Donald	Portland, Ore.	LD 25–9	209 Union
[5]McCartney, James Stephen	Alturas	LD 87+33	241 Toyon-*611*
McCarty, Donald Walker	San Francisco	LD 91+81	114 Toyon
McCarty, Honora Kathryn	San Francisco	Med. gr.	2011 California, SF-sf
A.B., Stanford, 1923			
MacCasland, Stanford	Los Angeles	LD 100+48	305 Branner-*994*
[4]McCaslin, Vera	San Francisco	Sch. Ed. ‡	316 Roble
[4]McClave, Elizabeth C.	Lewistown, Mont.	Sch. Ed. gr.	253 Roble
A.B., Vassar, 1925			
[1]McCleave, Kathryn Eloise	Berkeley	Econ.80·100+69	Gam.PhiBeta-*1337*
A.B., Stanford, 1925			
McCleave, Thomas Crooke	Berkeley	Pre-Med. 136+94	Delta Upsilon
[4]McClellan, Charles Eli	Logan, Utah	Educ. gr.	Mayfield
A.M., Utah Agricultural, 1923			
McClellan, Thomas Lane	Glendale	LD 86+3	Sigma Chi-*628*
McClelland, John Mill	Cincinnati, Ohio	Fr. gr.	Menlo Park-mp
A.B., Stanford, 1924, A.M., 1925			
McClintock, Leonard Edgar	Taft	LD 40·52+66	302 Encina-*93*
[23]McClinton, Ralph Edwin	Burlingame	Law 180+110	404 Encina-*1713*
A.B., Stanford, 1925			
McClure, Roy Armand	San Bernardino	LD 73+86	239 Toyon
[3]MacClyment, David B.	Riverside	LD ‡ 14–6	334 Encina
McColloch, Leland Jordan	Los Angeles	LD 89+38	Phi Kappa Sigma-*1306*
[1]McCombie, Harold Edward	San Andreas	Law gr.	315 Union
A.B., Stanford, 1922, J.D., 1925			
McCook, Rupert Francis	Long Beach	Law 137+80	AlphaSigmaPhi-*1357*
§[1]McCord, Floyd Marion	Hayward	Pre-Med. ‡ 59+6	530 University-p
[4]McCord, Glenn Alvin	Cherokee, Okla.	Hist. gr.	136 Toyon
A.B., Phillips, 1924			
McCorkle, Cora G.	Colorado Sprgs., Colo.	Engl.-Jn.135·45+20	384 Roble-*1238*
A.B., Stanford, 1925			
McCormack, James Edward	Pasadena	LD 78–7	Phi Kappa Sigma-*1306*
McCormick, Henry	Alameda	LD 82–6	Phi Delta Theta-*1334*
[5]McCormick, Lewis Montford	Palo Alto	Phar. gr.	164 Lowell-p
A.B., Stanford, 1925			
McCray, Alan Archer	Hollywood	LD 92+37	Delta Kappa Epsilon-*O*
[3]McCreery, J. Harold	Coronado Beach	LD 46–16	Larkin Hotel
McCuen, Theron Lewis	Ione	LD 43+3	245 Encina-*1115*
McCullough, George Burns	Reno, Nev.	LD 85+57	221 Toyon-*1773*
[12]McCullough, Margery S.	Los Angeles	Bact. gr.	1146 Waverley-p
A.B., Mills, 1923; A.M., Stanford, 1925			
[234]McCullough, Ronald V.	Sp'gdale, Alta.	LD 80·43+28	Branner
McCutchan, Muriel F.	Portland, Ore.	Engl. 65·47+34	256 Roble
McDermid, Finlay Angus	Palo Alto	Engl.15·174+227	603Middlefield-p
A.B., Stanford, 1925			
McDermont, Gilbert Roy	Fullerton	Econ. 144+41	Sig.AlphaEps.-*1305*
[134]McDermott, John Carson	Los Angeles	LD 79+117	215 Toyon-*925*

§ Deceased, April 24, 1925

[1]McDonald, Howard Austin A.B., Stanford, 1925	Chicago, Ill.	Geol. 118·88+8	1333 Byron
McDonald, Juilliard A.B., Stanford, 1925	San Francisco	Hist. 15·165+59	DeltaKappaEps.
[4]McDonald, Mary Isabel B.S., Columbia, 1910	New York, N.Y.	Educ. gr.	Barker Hotel-p
McDonnell, Robert H.	Kansas City, Mo.	C.E. 82·31+12	Al.TauOmega-*2039*
[1]McDonough, John Sebastian A.B., St. Mary's, 1914, A.M., 1915	Menlo Park	Hist. gr.	Menlo Park-mp
[12]McDougall, James W.	San Francisco	LD 63–15	*229* Branner-*1042*
[12]McDougall, Kenneth R.	Palo Alto	Law 100+163	Al.Kap.Lamb.-*658*
McDowell, Edgar Allen	Stanford Univ.	Econ. 9·126+*226*	Los Altos-*131*
McDowell, Margaret Deering	Ashland,O.	Chem. 3·134+199	K.K.Gam.-*1354*
McDowell, William Clifford	Alameda	LD 37–12	350 Encina-*1485*
Mace, Marion Lewis	San Francisco	LD 81+16	Kap.Kap.Gamma-*1354*
[12]McEachen, Howard D.	Wayne, Neb.	Law ‡ *32*–30	Theta Delta Chi-*T*
McElligott, Merian E. A.B., Stanford, 1925	Virginia, Minn.	Hist. 2·180+62	301 Roble-*662*
McElvenny, Ralph T.	Salt Lake City, U.	LD 45+19	435 Encina-*889*
McElvenny, Robert T.	Salt Lake City, U.	LD 48+11	435 Encina-*889*
McGann, Basil Louis	Los Angeles	Law 131+61	PhiKappaSigma-*1306*
McGarry, Katherine Ann A.B., Sacred Heart, 1923; A.M., Stanford, 1925	Hermosa Beach	Cl. Lit. gr.	Menlo Park-mp
[134]McGettigan, Carroll C.	San Francisco	Geol. 102+14	Delta Tau Delta
[4]MacGinitie, George E. A.B., Fresno State Teachers College, 1925	Fresno	Zool. gr.	Pacific Grove-pg
[4]McGinn, Laura Edith	San Mateo	LD	*322* Roble
McGinn, Vincent Joseph	Tonopah, Nev.	LD 32–2	542 Cowper-p
McGinnis, James Joseph	San Francisco	Pre-Med.135·43–3	344Mid'lefld-p
McGonigle, Lawrence E.	Los Angeles	LD 44+61	*225* Encina-*526*
[234]McGoun, Isabella W. A.M., McGill, 1923	Montreal, Can.	Pol. S. gr.	Kingscote
[12]MacGovern, Sara Gwendolyn A.B., Stanford, 1924	Vallejo	Sch. Ed. gr.	Manzanita
[4]McGrath, James Morgan A.B., Stanford, 1924	Palo Alto	Sch. Ed. gr.	567 Forest-p
McGuinness, John Edward A.B., Stanford, 1924	San Francisco	Med. gr.	126 6th Ave., SF-sf
[4]McGuire, Roscoe William	Santa Barbara	LD ‡	139 Toyon
McGuire, Thomas Grant	Santa Rosa	LD 45+5	402 Encina
McHenry, Merl Langdon A.B., Stanford, 1925	Alameda	Law gr.	Zeta Psi-*B*
McHose, John Cresco A.B., Stanford, 1925	Ashland, Ohio	Law gr.	219 Encina-*1334*
[4]McIlvain, Imogene F. A.B., Oberlin, 1920	Sharpsville, Pa.	Engl. gr.	202 Roble
McInnes, Chester M.	Los Angeles	LD 71+60	25 Salvatierra-*931*
[5]McInnes, Robert Alexander	Oxnard	LD 73–4	Sigma Alpha Eps.-*1305*
[134]McInnes, Thomas Flournoy	Oxnard	LD 68+9	Sigma Alpha Eps.-*1305*
Macintosh, Richard R. A.B., Stanford, 1925	Santa Monica	M.E. 214+20	Sigma Nu-*1385*
[3]Macintosh, Walter Rader	Santa Monica	LD 10–16	228 Encina
[4]Mack, Adelaide	Pasadena	Engl. ‡	361 Roble
Mack, Augustus Frederick, Jr.	San Diego	Law 90·51+48	52 Sequoia-*1881*
Mack, Charles Edward	Pasadena	LD 91+33	Phi Kappa Psi-*1333*

Mack, John Erick	Pasadena	Law 133+69	Phi Kappa Psi-*1333*
[4]Mack, Reba Galvin	Sacramento	Engl. gr.	104 Roble
A.B., Stanford, 1910			
MacKamey, Rhodus	Palo Alto	LD 90+14	324 Emerson-p
[5]McKay, Donald Cope	Salt Lake City, U.	Hist. 151+170	251 Toyon-*646*
McKay, Eaton M.	San Francisco	Med. gr.	2085 Sacramento, SF-sf
A.B., California, 1921			
[12]McKay, John James	San Francisco	Pre-Med.‡58–*32*	22ElginPk,SF-sf
McKay, Warren Scott	Fresno	M.E. 82·88+102	105 Emerson-p
McKechnie, Frank	Berkeley	Span. 167+199	641 Gilman-p
[4]McKee, Stella	Palo Alto	Engl. gr.	1342 Webster-p
A.B., Western Reserve, 1901			
[4]McKenna, Mary S.	Lemoore	Econ. gr.	Madroño
A.B., Stanford, 1917			
McKenna, Seth Louis	Lemoore	LD 72+29	62 Sequoia-*1113*
McKenney, Philip Wash	Oakland	Med. gr.	1284 8th, O-o
A.B., Stanford, 1924			
[4]McKenzie, Annie	Lodi	LD ‡ 16+4	353 Melville-p
[4]McKenzie, Ellen M.	Mountain View	Sch. Ed. gr.	Mountain View-mv
A.B., California, 1924			
McKibbin, Mabel Ferris	Portland, Ore.	Ed. G.A. gr.	Alpha Phi-*1387*
A.B., Stanford, 1925			
McKinley, Hugh Arthur	Stanford Univ.	Med. gr.	*322* Union-*1036*
A.B., Wabash, 1914			
[12]McKinnon, Clinton Dotson	Palo Alto	LD 15–4	427 Webster-p
[1]McLaughlin, Evlyn	San Francisco	Hist. 87·93+17	Kap.Al.Theta-*1336*
A.B., Stanford, 1925			
[4]McLaughlin, James	Corvallis, Ore.	Educ. gr.	Toyon
A.B., Grove City, 1905, A.M., 1907			
[34]McLean, Charles A., Jr.	Portland, Ore.	LD 43–*22*	Chi Psi-*1648*
McLean, Corbett	Portland, Ore.	LD 92+91	*327* Emerson-p
[4]McLean, Sara Jane	Fresno	Educ. ‡	Roble
[12]McLean, William Ellis	Portland, Ore.	M.E. 147–*3*	325 Alma-p
McLeish, Alexander	Santa Clara	Econ. 90·43+4	1707 Liberty, SC-sc
[5]McLellan, Roderick Irving	Burlingame	Econ. 167+129	1229 Paloma, B-b
McLeod, Gertrude E.	San Francisco	Fr. 186+165	Delta Gamma-*1366*
A.B., Stanford, 1925			
McLeod, Gladys Marian	San Francisco	Hist. 119+42	Delta Gamma-*1366*
[1]McMahon, Edward John	Taft	LD 2–12	307 Encina
[3]McManigal, Holden Edgar	Pasadena	LD 49–*24*	Kappa Alpha-*1356*
[5]McManis, John T.	Mayfield	Hist. gr.	449 Wellesley, M-*893*
A.B., Stanford, 1897, A.M., 1902			
[1]McMillan, Paul Kilpatrick	Burlingame	LD 0–15	*723* Linden, B-b
[4]McMillin, Harrison C.	Coffeyville, Kans.	Sch. Ed. gr.	369 Forest-p
A.B., Kansas, 1913			
[1]McMillin, Harvey Clay	Palo Alto	Zool. gr.	847 Bryant-*1361*
B.S., Washington, 1923			
McMurray, Donald Irvine	Aberdeen,Wn.	LD 45+29	409 Encina-*885*
McMurry, Helen Beulah	San Jose	Hist. gr.	716 Emory, SJ-sj
A.B., College of the Pacific, 1924; A.M., Stanford, 1925			
[1]McMurry, Oscar Douglas	Big Pine	LD	137 Encina
MacNair, Helen Dorland	Houghton,Mich.	Math. 82·98+99	314 Roble-*601*
A.B., Stanford, 1925			
McNamee, Frank S., Jr.	Los Angeles	LD 90+46	1001 Ramona-*1993*
[34]McNary, Thomas Benton	Los Angeles	Law 111·42+5	203 Toyon

McNaught, Robert C. San Francisco LD 100+108 133 Branner
McNaught, William K. San Francisco LD 67+28 127 Branner
McNichols, Charles L. Los Angeles Engl. 10·171+134 424 Seneca-p
A.B., Stanford, 1925
McOmie, Margaret Edith Los Alamitos LD 93+57 249 Roble-*906*
McOmie, Rulon Wells Los Alamitos Chem. 90·48+*32* 30 Sequoia-*906*
[3]McPhee, James W. Grande Prairie, Alta. LD sp. 14+0 126 Encina
McPherson, Mahlon Daniel Santa Cruz Pre-Clin.51·155+109 260Toyon-*694*
A.B., Stanford, 1925
McQuistion, Lois Lovina Los Angeles Soc. S. 49·88+78 Alpha Phi-*1387*
MacRae, Richard Loomis Los Angeles Econ. 149+12 Delta Upsilon-*1353*
[12]McVey, Allyn Coronado LD 90·61–16 26 Sequoia-*1098*
[1]McVey, Archibald Peet Coronado Engl. 185+32 433 Melville-p
A.B., Stanford, 1925
Macy, Frederick Oliver Los Angeles LD 48+49 359 Encina-*1666*
[1]Madden, Arthur Lee Palo Alto LD sp. 11–5 115 Everett-p
[4]Madigan, Leo Alphonsus Los Angeles Sch.Ed.gr. Santa Clara U.,SC-sc
A.B., Gonzaga, 1921, A.M., 1922
[4]Madison,Ryland Randolph SanFrancisco LD 637 Powell, SF-sf
Magarian, Gasper H. Fresno Law gr. 563 Encina-*1045*
A.B., Stanford, 1923, J.D., 1925
Magarian, Masick Charles Fresno Phys. gr. 500 Encina-*682*
B.S., Massachusetts Institute of Technology, 1923; A.M., Stanford, 1925
Magee, Tarance Smith Fresno Econ. 98·83+10 107 Branner-*1846*
A.B., Stanford, 1925
Magruder, Augustin F. Starkville, Miss. Engl. gr. 550 Kingsley-*924*
B.S., Virginia, 1923
Maguire, William Francis San Francisco LD 38–4 29 Encina-*1544*
[1]Mahan, Archie Gordon Venice LD 48–9 Kappa Alpha-*1356*
[12]Mahoney, George Campbell Berkeley Min. 102·50+7 234 Union-*30*
Maillot, Elmer Ellsworth Alameda Min. gr. Theta Xi-*1355*
A.B., Stanford, 1923, Engineer, 1925
Maine, George Goodell Stillwater, N.J. Educ. gr. 200 Washington, SJ-sj
A.B., Stanford, 1924
[3]Malinowski, Czeslaw Warsaw, Poland M.E. gr. 346 Harvard, M-*940*
Gov't School of Machine Construction and Elec. Engineering, Warsaw, Poland
Malnick, Irving Lawrence Oakland LD ‡ 41–3 109 Encina-*1188*
Maltby, Harry Lee Long Beach LD 45–17 41 Encina-*534*
[4]Manahan, Robert Fulton Palo Alto Law gr. Cardinal Hotel-p
B.S., Massachusetts Institute of Technology, 1903; A.B., Harvard, 1912
Manchee, Marie Santa Barbara LD 99+131 275 Roble-*621*
Manchester, Francis Byers So. Pasadena Law 70·74+17 Delta Upsilon-*1353*
Mancini, John Adolph Hayward C.E. 145+211 142 Toyon-*I*
[2]Manger,Rich.R. WhiteSulph.Spgs.,Mont. Law 10·106+168 Cardinal Hotel-p
Mangold, William Philip Los Angeles LD 50+84 19 Salvatierra-*1502*
Mann, Arthur Newton Anaheim LD 90+12 Kappa Sigma-*1326*
Mann, John Kankakee, Ill. Econ. 133+31 Theta Delta Chi-*T*
[4]Mann, Millie Palo Alto Cl. Lit. gr. 522 Webster-p
A.B., Kansas, 1914, A.M., 1915
Mannoccir, F. David, II Hollywood Law gr. Beta Theta Pi-*1335*
A.B., Stanford, 1924
Mannon, James Bramlet Ukiah Hist. 155+237 245 Toyon-*1494*
[4]Manny, Helen M. Oakland Chem. gr. 201 Roble
B.S., Knox, 1910

Mansfeldt, John Harold — San Francisco — Med. gr. — 207 Cherry, SF-sf
A.B., Stanford, 1923
Mansfield, James Verne — Palo Alto — LD 44+52 — 1102 Ramona-p
Manspeaker, Almon F. — Los Angeles — LD 49+74 — 337 Encina-*1861*
Mapson, Donald Leslie — Los Angeles — LD 47+39 — 347 Encina
[12]Marble, John Maclaren — So. Pasadena — Pol. S. 5·176+140 — Al. Delta Phi-*J*
A.B., Stanford, 1925
Marble, Miriam — So. Pasadena — LD 46·44+46 — 173 Roble-*824*
[234]Marburg, Helen — Montclair, N.J. — Fr. gr. — Sigma Kappa-*1327*
A.B., London, 1914
Mariette, Edgar Lionel — Palo Alto — LD 80–4 — Alpha Tau Omega-*1384*
[34]Marker, William Maxwell — Palo Alto — Chem. gr. — 355 Cowper-p
A.B., Stanford, 1917
[4]Markley, Clinton Lovdon — San Francisco — Educ. gr. — 235 Leland, M-m
A.B., Miami, 1909
Marks, George Albert — Santa Monica — Econ. 180+42 — Delta Chi-*1304*
A.B., Stanford, 1925
Marks, Graham Wallace — Spokane, Wn. — Chem. 155+132 — 305 Branner
Marlow, Arthur Ashley — San Diego — S. Biol.-Med. 192+91 — D.T.D.-*1363*
A.B., Stanford, 1925
[12]Marquis, Cecil Isaac — Twin Falls, Ida. — Econ. 43·138+29 — 547 Encina-*1*
A.B., Stanford, 1925
Marsh, Chester — San Francisco — Med. gr. — S.F. Hospital, SF-sf
A.B., Stanford, 1922
Marsh, Loveridge Warren — Brawley — LD 113–1 — 246 Toyon-*1135*
[4]Marsh, Mabel Mead — Sutter — Span. gr. — 329 Roble
B.S., Cornell, 1898
Marshall, Donald Carlyon — Sunnyvale — Pre-Clin. 180+297 — Sunnyvale-s
A.B., Stanford, 1925
Marshall, Oscar Chauncey — San Francisco — Med. gr. — 1048 Potrero, SF-sf
A.B., Stanford, 1922
[4]Martens, Elise Henrietta — Berkeley — Sch. Ed. gr. — 30 Alvarado
A.B., California, 1906, A.M., 1922
Martin, Henry Adam — Watsonville — Econ. 180+93 — 140 Toyon-*1177*
A.B., Stanford, 1925
[5]Martin, Horace Edmund — Los Angeles — Phil. 139+2 — Chi Psi-*1648*
Martin, Kenneth George — Watsonville — Econ. 30·107+23 — 140 Toyon-*1177*
[4]Martin, Margaret — Oakland — Econ. gr. — 305 Roble
A.B., Mills, 1925
Martin, Vincent Lyman — Los Angeles — Hist. 149–1 — 19 Salvatierra-*1150*
Martins, Samuel Marion — San Bernardino — Zool.-Med. 101·98+88 — 73 Seq.-*2001*
A.B., Stanford, 1925
[4]Marty, Pearl Ann — Cleveland, Ohio — Engl. gr. — Madroño
Ph.B., Buchtel, 1903
[1]Marum, Pauline Gertrude — Menlo Park — Cl. Lit. gr. — Menlo Park-mp
A.B., Sacred Heart, 1923; A.M., Stanford, 1925
[5]Marvin, Stanley — Mayfield — M.E. 5·138+116 — 1758 2d, M-*861*
Marx, Barbara — Palo Alto — LD 90+88 — Kappa Alpha Theta-*1336*
Mason, Lloyd Alexander — Riverside — LD 44+44 — 702 E. Santa Clara, SJ-sj
Mason, Marshall Irwin — Palo Alto — Pre-Clin. 188+128 — Box 351, p
A.B., Stanford, 1925
[5]Mason, Rowena Steirly — Watsonville — LD 23·89+54 — Kap. Al. Theta-*1336*
Mason, Roy Waldo — Boston, Mass. — LD 41+11 — 111 Encina-*1913*
Mason, William Andrews — Hollywood — LD 45·46+30 — 238 Encina-*535*
[2]Mater, Daniel Harrison — Palo Alto — LD 31–27 — Ramona Hotel

Mather, William Max A.B., Stanford, 1925	Spokane, Wn.	Econ. 39·141+125	506 Encina-*101*
[1]Mathers, Lawrence Howlett	Delta, Colo.	LD	136 Encina-*1473*
Mathes, Mary E. A.B., Oregon, 1920	Palo Alto	Med. gr.	1209 Bush, SF-sf
[4]Mathews, Catherine A.B., State College of Washington, 1923	Pullman, Wn.	Engl. gr.	254 Roble
Mathewson, Carleton A.B., Stanford, 1923	Fresno	Med. gr.	2215 Buchanan, SF-sf
Matson, Theodore M. A.B., Stanford, 1923, Engineer, 1925	Mitchell, Neb.	E.E. gr.	319 Union-*945*
[12][4]Matta, Amar Dass	Afzalahao, India	Zool.30·87+16	1615 P.A.Ave.-*1916*
Matthay, F. Lowell	Los Angeles	Law 3·120+73	325 Union-*1*
Mattson, Edith Antoinette	San Bruno	LD 49+71	109 Roble
Maupin, James Lawrence, Jr. A.B., California, 1921	Fresno	Med. gr.	2415 Buchanan, SF-sf
Maxon, Yale Candee	Campbell	LD 45+33	141 Encina
Maxwell, Helene	Burlingame	LD 14–24	366 Roble
May, J. Earle A.B., Stanford, 1925	Los Angeles	Econ. 187+10	206 Branner-*2012*
[4]Maycumber, Marion Cora	Palo Alto	LD ‡	170 Lowell-p
§[1]Mayer, A. Walter, Jr.	San Francisco	LD	234 Encina-*1452*
Mayer, Barbara Anne	San Francisco	LD 67+106	381 Roble-*1131*
Mayfield, Charlotte May A.B., Stanford, 1925	Suisun	Hist.127·55+4	Gam. Phi Beta-*1337*
[4]Maynard, Fred Alexander	San Jose	M.E. ‡	1291 Washington, SJ-sj
Maytham, Frank, Jr.	Stanford Univ.	LD 45·47+45	Kingscote-*1224*
Mead, Ellen Orpha A.B., Stanford, 1925	Hollywood	Hist. 97·89+29	Pi Beta Phi-*1332*
Meadowcroft, Allan James	Modesto	C.E. 144+234	48 Sequoia-*1134*
[4]Meairs, Robin Pearl B.S., Kansas State Teachers College, 1922	Dodge City, Kans.	Educ. gr.	Zeta Psi
Meakin, Jack Brunker	Salt Lake City, U.	LD 39–15	206 Encina-*1951*
[5]Means, Lucy Woodbridge	Burlingame	Germ.42·131+28	1400B'lve.B-*1332*
[5]Meehan, William John	Redwood City	Ent. sp. 10·139+37	Box 636, p
[12]Meeker, Warren Leslie	Glendale	LD ‡ 41–28	1359 Byron-p
Meeks, Thomas Sidney	Hollywood	LD 93+82	Alpha Delta Phi-*JJ*
Mei, Ju Ao	Nanchang, China	Econ. 90·44+51	Chinese Club-*55*
Meiklejohn, David C.	Los Angeles	Engl.-Jn. 113+35	113 Toyon-*1*
Melkonian, Leon A.B., Stanford, 1924	San Francisco	Med. gr.	510 22nd Ave., SF-sf
[4]Melvin, Florence Adeline A.B., State College of Washington, 1923	Pullman, Wn.	Sch. Ed. gr.	Roble-*1325*
Mendelowitz, Daniel Marcus	San Jose	Ed.G.A.90·46+33	385 S.7th, SJ-sj
Mendenhall, Lee Otey	Piedmont	LD 85+15	Sigma Nu-*1385*
Menken, Frederick A.	Santa Barbara	Min. 90·48+55	841 Bryant-p
Mentz, Wilko, Jr.	Porterville	LD 47+13	346 Encina-*622*
Menzies, John MacIntosh	San Rafael	LD 89+11	Chi Psi-*N*
[34]Merrill, Amos Newlove M.S., Illinois, 1908	Provo, Utah	Educ. gr.	706 Cowper-p
[4]Merrill, Anna F.	Salt Lake City, Utah	Fr. 48·126+54	204 Roble
Merrill, Ernest Nathaniel A.B., Stanford, 1925	Redwood City	M.E. gr.	Theta Xi-*1355*

§ Deceased February 22, 1925

Merrill, Raymond M. Denver, Colo. Law 90·91+47 313 Union-*1200*
A.B., Stanford, 1925
[1]Merritt, Russell Staples Santa Rosa Econ. 45·135+21 68 Sequoia
A.B., Stanford, 1925
[12]Merryman, L. Will Eureka Pre-Med. 19–32 Sigma Chi-*628*
Meservey, Douglas W. Kearney, Neb. Law 47·86+19 Beta Theta Pi-*1335*
Metzgar, James Hustead Los Angeles LD ‡ 61–24 Theta Delta Chi-*T*
[14]Metzler, William Herman Los Gatos Soc. S. gr. 302 Toyon
A.B., Stanford, 1919
[4]Mexia, Ynes San Francisco LD ‡ Pacific Grove-pg
[23]Meyberg, Edwin Julius Los Angeles LD 26+2 325 Encina-*1196*
Meyer, Dorothy Farrar Oakdale Hist.33·165+17 Gam.PhiBeta-*1337*
A.B., Stanford, 1925
[3]Meyer, Margaret Sacramento LD 15–1 284 Roble
[23]Meyer, Norton San Francisco LD 137+19 212 Toyon-*1855*
Meyer, Philip Naramore Stanford Univ. Econ. 138+21 DeltaTauDelta-*1363*
[5]Meyer, William Wilfred San Francisco LD 122+122 311 Toyon-*1855*
Meyers, Philip Thomas Bakersfield Econ. 121+46 Delta Chi-*1304*
Middleton, Joel Dugger Phoenix, Ariz. Hist. 151+13 Kappa Sigma-*1336*
[3]Miles, Lydia Clements San Jose Educ. gr. 312 E. William, SJ-sj
Ph.B., Chicago, 1922
[13]Millage, James Henry Phoenix, Ariz. LD 14·27+4 118 Encina-*1884*
[5]Millar, Henry Lloyd Ogden, Utah Min. gr. 303 Union
A.B., Stanford, 1925
[4]Millar, William Syril Ogden, Utah Bact. gr. Union
B.S., Utah, 1920
[12]Miller, Albert Emlyn Marysville LD 16–25 321 Encina-*583*
[4]Miller, Albert William Fresno Educ. gr. 224 Union
B.S., California, 1908, M.S., 1916
Miller, Alfred Amasa Seattle, Wn. Law gr. 307 Union-*1634*
A.B., Stanford, 1924
Miller, Arthur Capps Salt Lake City, U. LD 46+63 330 Encina-*2056*
[4]Miller, Barbara Dina Mountain View LD ‡ 7+1 Box 76, mv
Miller, Bernice Elizabeth San Francisco LD 82+15 Kap.Kap.Gamma-*1354*
[3]Miller, Fred Allen Anaheim LD 70+6 AlphaKappaLambda-*658*
Miller, Harold Anderson Aberdeen, Wn. Econ. 142+12 Kappa Sigma-*1326*
[12]Miller, Harold Eugene Mayfield LD 113–12 170Oxford,M-Bx764,p
[1]Miller, Herman Potts, Jr. Palo Alto E.E. gr. 731 Lincoln-p
A.B., Stanford, 1917, Engineer, 1925
[23]Miller, Hutton Upland Econ. ‡ 32+4 DeltaKap.Epsilon-*O*
Miller, John Johnston, Jr. San Jose Pre-Clin. 90·97+101 60 Sequoia
A.B., Stanford, 1925
Miller, Laura Minty Los Angeles LD 42–2 204 Roble
Miller, Louis Gardner Marysville LD 81+46 35 Lasuen-*1232*
Miller, Maxine Espy Los Angeles Econ. ‡ 33–14 Kap.Al.Theta-*1336*
[4]Miller, Neil Albert Monrovia LD Delta Kappa Epsilon
Miller, Philip Joseph Visalia Med. gr. 2436 Clay, SF-sf
A.B., Stanford, 1924
Miller, Ralph Blair Swissvale, Pa. M.E. 106·47+13 230 Kellogg-p
[4]Miller, R. Beatrice Philadelphia, Pa. Educ. gr. 615 University-p
A.M., Pennsylvania, 1921
[5]Miller, Roland McLeod Palo Alto Econ. gr. 818 Cowper-p
A.B., British Columbia, 1916; A.M., California, 1920
[12]Miller, Roscoe Riehm Tiffin, Ohio Econ. 61·123+56 PhiSig.Kap.-*538*
A.B., Stanford, 1925

[5]Miller, Samuel	Boston, Mass.	LD 9·73+44	132 Toyon-*1107*
[5]Miller, Stanley Welch	San Diego	Law 90·33–12	19 Salvatierra-*1882*
[5]Miller, Theodore F.	Clarkdale, Ariz.	Engl. 122+76	116 Toyon-*1*
Miller, W. Stanley	San Jose	C.E. 115+32	858 S. 8th, SJ-*574*
Milliken, Sheldon Spencer A.B., Stanford, 1925	Pasadena	Law 180+29	AlphaKap.Lamb.-*658*
[1]Mills, Dwight William	San Jose	Pol. S. 3·58–49	Box 97, Rt. C, sj
Mills, Walter Thomas, Jr.	Berkeley	LD 3·44–3	42 Encina
[4]Minard, Claude Russell A.B., Stanford, 1923	Fresno	Law gr.	207 Union-*1855*
[4]Minatra, Clelvie C. A.B., Colorado State Teachers College, 1924	Azona, Tex.	Educ. gr.	543 Byron-p
[5]Miner, Nagel Thompson	Santa Cruz	Law 178+151	475 Tennyson-p
Minner, Victor Julian A.B., Stanford, 1925	Carbondale, Ill.	Min. 9·173+286	331 Encina-*1086*
Miron, Carlos Albert, Jr.	San Francisco	LD 123+27	238 Toyon
[4]Mitchell, Alice Mae A.B., California, 1923	Berkeley	Hist. gr.	354 Roble
[4]Mitchell, Evelyn Dent	Santa Rosa	Educ. 62·51+80	349 Roble
[12]Mitchell, Harold G. B.S., Utah, 1923; A.M., Stanford, 1925	Salt Lake City, U.	Geol. gr.	129 Emerson
Mitchell, Howard Lipper	Berkeley	Econ. 127+51	Encina Gym.-*1*
[5]Mitchell, Lawrence	Berkeley	LD 47+23	951 Bryant-p
Mitchell, Roberta Hasty	San Jose	Chem. 74·111+141	PiBetaPhi-*1332*
[12]Mitchell, Roma L. A.B., Stanford, 1925	Los Angeles	Span. 22·158+85	1115P.A.Bx.414,p
Mitchell, Vaughn A.B., Stanford, 1923	Sanger	Med. gr.	2112 Pine, SF-sf
Mitchell, Willis A., Jr. A.B., Stanford, 1925	Little Rock, Ark.	Econ. 126·54+4	Kappa Alpha-*1114*
[4]Mitten, Emeline Williams	Palo Alto	Soc. S. 120+112	200 Kingsley-p
[12]Mizota, George Shuichi A.B., Stanford, 1925	Fukuoka, Japan	Law 182+184	Japanese Club-*598*
Mode, Morris John A.B., Stanford, 1925	Dinuba	M.E. 186+83	105 Branner-*1855*
Moen, Arthur Joseph	Zelzah	M.E. 93·77+34	66 Sequoia-*1964*
[4]Moffitt, Cecil Paul B.S., Oregon Agricultural, 1913	Madera	Educ. gr.	134 Toyon
[1]Molony, Mary Deming	Redwood City	LD 9–14	332 Roble
[4]Monroe, H. Morris A.B., Stanford, 1916	San Francisco	Educ. gr.	555 Chestnut, SF-sf
[5]Monroe, Yoves Motaire	Long Beach	LD 154–16	306 Union
[4]Monteverde, Whitten C.	San Francisco	Chem. ‡	439 Emerson-p
Montgomery, Clifton Reynolds	Lodi	LD 46+65	203 Encina-*1432*
Montgomery, Montel	San Francisco	LD 93+109	209 Branner-*1089*
Montgomery, Ruth Irene	Lodi	Engl. 92·45+19	378 Roble-*1432*
Moody, Warren Glenn A.B., Stanford, 1924	Fresno	Econ. gr.	542 Encina-*H2*
[4]Moon, Wook	Honolulu, T.H.	LD	
Moore, Caroline	Stockton	LD 98+112	Chi Omega-*1386*
Moore, Clifton Hayes	Lodi	LD 47–11	203 Encina-*1331*
Moore, Francis Joseph	Zamboanga, P.I.	LD 87+44	Kappa Sigma-*1326*
Moore, Fred Corner	San Jose	Min. ‡ 39–6	1069 S. 7th, SJ-sj
Moore, Howard Patrick	Zamboanga, P.I.	LD 33–2	407 Encina

Moore, Jack Beals	Fresno	Med. gr.	2303 Webster, SF-sf
A.B., Stanford, 1924			
Moore, Jack Kuehn	Los Angeles	LD 67+58	137 Toyon-*845*
[4]Moore, Joseph Rockefeller	Blythe	Educ. gr.	Madroño
B.S., Missouri State Teachers College, 1920			
[4]Moore, Lawrence	Denton, Tex.	Educ. gr.	111 Woodland
A.M., Texas, 1923			
[5]Moore, Robert Griffen	San Jose	Econ. 107·44+38	297 Reed, SJ-sj
Moore, Robert Marion	San Jose	Engl. 140+58	502 Encina
[4]Moore, Samuel W.	Selsom Springs, Ark.	Sch. Ed. gr.	520 Webster-p
A.M., Nebraska, 1913			
Moore, Stanley TenEyck	Sausalito	LD 34–14	230 Encina
[4]Moore, Walter Queener	Clinton, Tex.	Educ. ‡	215 Fulton-p
A.B., Carson-Newman, 1920			
[4]Moorshead, V. Patricia	Oakland	Sch. Ed. gr.	Roble
A.B., California, 1913			
[5]Moreland, Edward Philip	Burlingame	LD 68–13	247 Toyon
Moretti, Louis Ramon	Mill Valley	Min. gr.	Theta Xi-*1355*
A.B., Stanford, 1923			
Morgan, Francis Ketman	Palo Alto	LD 43+13	333 Encina-*1742*
Morgan, Harold Gad	Los Angeles	Econ.47·89+75	Al.TauOmega-*1384*
Morgan, Nathaniel Richard	Palo Alto	LD 50+86	333 Encina-*1742*
Morley, Vivian Albert	Bakersfield	LD 47+27	310 Encina-*1662*
[12]Morrill, Clifton W.	Santa Rosa	LD 57+4	Kappa Alpha-*1356*
[1]Morris, Harold Nathan	Oxnard	Geol. 136+25	33 Sequoia
Morris, Preston W., Jr.	Santa Monica	LD 45–4	423 Encina-*671*
Morrison, Deming W.	Wheatland, Wyo.	C.E. 180+43	1227 Byron-*1147*
A.B., Stanford, 1925			
Morrison, Erwin Gorham	San Francisco	Econ. 124–3	DeltaTauDelta-*1363*
[4]Morrison, Gordon Monroe	San Mateo	LD ‡	Sigma Alpha Epsilon
[5]Morrison, Marcus Fae	Stanford Univ.	Law gr.	234 Union-*856*
A.B., Stanford, 1924			
Morrison, Roland Jackson	Santa Clara	Phil. gr.	723 Hamilton-p
A.B., Stanford, 1923			
[4]Morrison, William Clarence	Smartville	Sch. Ed. gr.	Union
B.S., California, 1921			
Morrow, Kenneth John	Wallace, Ida.	Econ. 105·44+48	PhiDel.The.-*1334*
Morse, Cecily	Menlo Heights	LD 44+15	Menlo Heights-*840*
[1]Morse, Philip Gray	Stanford Univ.	LD 4–11	207 Encina-*840*
[4]Morse, Stanley Wallace	Santa Monica	Chem. gr.	1128 Webster-p
A.B., Hanover, 1920			
[234]Morse, William Russell	Palo Alto	Engl. gr.	Seale Academy-p
A.B., Harvard, 1876, A.M., 1910, Ph.D., 1914			
Morton, Charles Villiers	Manila, P.I.	LD 76–5	Kappa Sigma-*1326*
Morton, Marcia Ellsworth	Los Angeles	Hist. 106+104	Pi Beta Phi-*1332*
Mortsolf, Kenneth J.	Warmsprings, Ore.	Econ. 115+24	Delta Upsilon-*1353*
[1]Moser, Bernardine	Lewiston, Ida.	Engl. 135·58+13	Gamma Phi Beta
A.B., Stanford, 1925			
[4]Moses, Paul Lyman	Stanford Univ.	Sch. Ed. ‡	201 Toyon
Mosher, Francis W., Jr.	San Francisco	LD 90+67	140 Branner-*1683*
Mosher, Helen Elizabeth	Rawlins, Wyo.	LD 45+32	270 Roble-*1783*
Mossman, Ralph Westbrook	Antioch	LD 78–8	233 Branner
Motheral, John Grahame	Hanford	Econ. 111+123	Al.TauOmega-*1384*
[4]Mottinger, Charles Wesley	El Paso, Tex.	Educ. gr.	Cooley & Schofield-p
A.B., Nebraska, 1912			

[5]Moule, Richard Harding	Palo Alto	Econ. 128+7	Kappa Sigma-*1326*
[12]Mowers, Delbert Austin	Vacaville	LD 85+6	Kappa Alpha-*1356*
Moy, Herbert Bing	Stanford Univ.	LD 25·93+73	County Road-*1055*
Mueller, Gustave Adolf	Pacific Beach	LD 38+31	344 Encina-*1821*
Muhs, Fred R.	Berkeley	C.E. 140+179	225 Toyon-*673*
[4]Muirhead, Joseph Vivian A.B., Arizona, 1923	Bisbee, Ariz.	Educ. gr.	Toyon
[5]Mulchay, Roland Bernard	Portland, Ore.	Min. 187+253	220 Encina-*1355*
[4]Mullen, John Oscar	Jerome, Ariz.	LD ‡	Cooksey Lodge
[5]Muller, Dorothy	Oxnard	Econ. 164+16	Chi Omega-*1386*
Muller, Edward Pierre A.B., Stanford, 1925	San Francisco	Econ. 180+11	214 Toyon-*503*
[2]Mulryan, Henry A.B., Stanford, 1924, A.M., 1925	Beresford	Geol. gr.	Theta Chi-*1383*
Mumford, Patrick Foster A.B., Stanford, 1924, Engineer, 1925	Menlo Park	M.E. gr.	Menlo Park-mp
Munholland, John Earl	Long Beach	LD 32–7	364 Encina-*1754*
Murata, Thomas Tomio A.B., Stanford, 1925	San Francisco	M.E. 193+190	Japanese Club-*598*
Murdoch, Christine A.B., Stanford, 1923, J.D., 1925	Klamath Falls, Ore.	Law gr.	Manzanita
[4]Murphy, Jessica Mae	Mountain View	LD sp.	Mountain View-mv
[1]Murphy, John Andrew	Salinas	LD 76–15	Phi Gamma Delta-*1324*
[2]Murphy, John Matthew A.B., Stanford, 1924	Petaluma	Anat. gr.	329 Union-*693*
[5]Murphy, Michael Mark	Berkeley	LD 38–6	216 Encina-*1744*
[2]Murphy, Paul John	Salida	Pol. S. 105–19	Delta Upsilon-*1353*
[14]Murphy, Ramund Robert	San Francisco	Law 113+42	Sigma Nu-*1385*
[1]Murphy, Robert Ward	Burlingame	LD 14–18	206 Encina
[1]Murphy, Russell Nichols	Burlingame	LD 115+34	Sigma Chi
Murray, Donald Angus	Suisun	LD 45+6	344 Encina-*1797*
[12]Murray, Francis Harold	San Francisco	LD 62+6	Theta Xi-*1355*
[4]Murray, Hazel Strain B.S., Oregon Agricultural, 1921	Santa Cruz	Sch. Ed. gr.	2130 Emerson-p
[13]Murray, Lydia	Palo Alto	LD 72+112	1019 Bryant-p
[4]Murray, Nettie B.S., Oregon Agricultural, 1924	Pacific Grove	Zool. gr.	Pacific Grove-pg
[12]Murray, Robert Sinclair A.B., Stanford, 1925	Redwood City	Econ. 50·130+12	Box 326, rc
[4]Murray, Willette Benjamine B.S., Oregon Agricultural, 1921; M.S., Colorado Agricultural, 1922	Fowler	Sch. Ed. gr.	2130 Emerson-p
[3]Musick, Lewis Willis	Newark	LD 16–2	Mayfield
[12]Musso, Ernest Francis	Bowman	LD 75+0	11 Sequoia
Mustain, Marshall Galucia	El Paso, Tex.	LD 42+15	353 Encina-*1454*
Musto, Kathleen Marie	San Francisco	LD 85+51	Alpha Phi-*1387*
Myers, Alice Elizabeth A.B., Stanford, 1925	Berkeley	Law 53·129+99	DeltaGamma-*1366*
[4]Myers, Beatrice Rider	Los Angeles	LD 13–11	Phi Gamma Delta-*854*
Myers, Lyttleton Emery	Glendale	LD 123+46	50 Sequoia-*1170*
[4]Myers, Mabel A.B., State University of Iowa, 1921	Clear Lake, Iowa	Engl. gr.	253 Roble
Myers, Robert Pearce A.B., Stanford, 1925	Long Beach	Law 6·185+141	PhiKappaPsi-*1333*
Mynard, Charles Edgar	Oakland	LD 44+50	120 Encina-*842*

[4]Nagle, Eileen Genevieve Los Angeles Ed. G.A. ‡ Roble
Nagle, Wesley Michael El Paso, Tex. LD 74+105 51 Sequoia-*1453*
[4]Nass, Pavel V. Menlo Park LD sp. 0–9 Box 285, mp
Natcher, Stanlus Zoch Los Angeles LD 88+38 Zeta Psi-*B*
Nauman, Jessie Patrice San Francisco Hist. 117+71 Delta Gamma-*1366*
[4]Naval, Macario G. San Fernando, P.I. Educ. gr. 15 Salvatierra
A.B., Iowa State Teachers College, 1925
Nave, Charles Olney Kissimmee, Fla. Min. 181+44 845 Waverley
A.B., Stanford, 1925
[4]Naylor, Blanche San Diego Educ. gr. 34 Lasuen
A.B., San Diego State Teachers College, 1924
[2]Neer, Phillip F. Portland, Ore. Law 190+4 Alpha Delta Phi-*J*
A.B., Stanford, 1925
[5]Neff, Harold Arthur Palo Alto Econ. 150+63 908 Boyce-p
[23]Negus, William Nelson Lompoc LD 61–21 OakGroveAve,MP-*2044*
Neill, William C. Santa Monica Econ. 148+18 PhiKap.Sigma-*1306*
[12]Neisser, Edward Venice Econ. 88+4 208 Branner-*1785*
[1]Nelson, Albert Eureka Pol. S. 181+120 221 Toyon
A.B., Stanford, 1925
Nelson, Arnold Harvey Clovis Econ. 68·113+18 21 Sequoia
A.B., Stanford, 1925
[4]Nelson, Charles Alfred Mt. Vernon, Wn. Educ. gr. 208 Union
A.B., Washington, 1906
Nelson, Clarence Henry Long Beach Pre-Clin. 135·48+36 228 Union
A.B., Stanford, 1925
[1]Nelson, Elmer John Clovis C.E. 180+132 Al.TauOmega-*1384*
A.B., Stanford, 1925
Nelson, Helen Eugenia San Jose Engl. 4·132+167 247 Roble-*142*
[23]Nelson, Norman Ralph Palo Alto LD sp. 67–19 750 Channing-p
[4]Nelson, Peter Robert Truckee LD ‡ 16+15 332 Channing-p
[1]Nelson, Robert Hatch Georgetown,Colo. Min. 135·50+15 203 Union-*1693*
A.B., Stanford, 1925
Nelson, Theodore Julius San Jose LD 48+60 31 Brooklyn, SJ-sj
Nelson, Walter Jennings Boise, Idaho Law 90·49+26 445 Lowell
Nelson, William Kenneth Santa Ana Chem. gr. 558 Encina-Box 141, p
A.B., Stanford, 1924, Engineer, 1925
[4]New, Charles Ternay Commerce, Tex. Hist. gr. 1227 Byron-p
A.B., Texas, 1908, A.M., 1909
[12]Neuman, Herbert Henry Turlock C.E. ‡ 60–6 265 Coleridge-*1827*
Nevers, Ernest Santa Rosa LD 94+31 Kappa Alpha-*1356*
[1]Nevins, Arthur Garth Clovis LD 96+34 365 Channing
Newbauer, Jerome Paul San Francisco Econ. 186+131 217 Branner-*1080*
A.B., Stanford, 1925
[4]Newcomb, DouglasAlexander LongBeach Educ. gr. 212 Toyon
B.S., Rochester, 1918
Newcomb, Fred Hayes Ashland, Ohio LD 39–18 206 Encina
[34]Newcomb, Wendell Wayne Santa Cruz Pol.S. 90·15+14 55 Sequoia
[2]Newcomer, Mary Adele Phoenix, Ariz. Sch. Ed. gr. Chi Omega-*1386*
A.B., Stanford, 1924
Newhouse, Frederic H. Los Angeles LD 69+31 138 Toyon-*1702*
[1]Newill, Philip Portland, Ore. Engl. gr. 8 Union-*M*
A.B., Stanford, 1924
Newkirk, Dana Sheldon Anaheim LD 90+3 Kappa Sigma-*1326*
Newland, Leroy Sublette Palo Alto LD 95+50 628 Middlefield-p
[12]Newlove, Marlin Edgar Santa Monica LD 114+54 228 Toyon-*645*

Newman, Henry Wise	Fresno	LD 90+122	116 Toyon-*882*
Newman, William, Jr.	Fresno	Med. gr.	2215 Buchanan, SF-sf
A.B., Stanford, 1921			
[3]Newmark, Harris	Los Angeles	LD 15+18	39 Encina
Newmark, Richard Roth	Los Angeles	LD 56–9	137 Branner-*1141*
Newton, Elizabeth Virginia	Riverside	Engl. 90·92+50	Pi Beta Phi-*1332*
A.B., Stanford, 1925			
[5]Newton, Glenn DeWitt	Dinuba	Sch. Ed. gr.	306 Union-*1975*
A.B., Stanford, 1924			
Nicholas, Marion Irene	Los Angeles	LD 95+121	Kap.Kap.Gamma-*1354*
Nicholas, Warren Whittier	Palo Alto	Phys. gr.	458 Channing-p
A.B., Stanford, 1923, A.M., 1924			
Nichols, Frank Culver	Hollywood	Law 137+83	240 Toyon-*1*
Nichols, James Ross	Huntington Beach	LD 39–21	139 Encina
[5]Nichols, John Ralph	Palo Alto	Educ. gr.	1345 Webster-p
B.S., Oregon Agricultural, 1922			
Nichols, Winifred Barton	Pasadena	Econ. 133+58	Sigma Kappa-*1327*
Niebergall, Herbert A.	Vancouver,B.C.	Med. gr.	2215 Buchanan, SF-sf
A.B., Stanford, 1923			
[5]Nielsen, Maurice Louis	Milwaukee, Wis.	Law 135·41+11	519 Cowper-p
Niemann, Christian W.	San Francisco	Chem. 184+145	136 Toyon
A.B., Stanford, 1925			
Nisbet, Clara Lou	Upland	LD 117·58–2	Kap.Al.Theta-*1336*
[3]Nishimoto, Shigeaki	Tokyo, Japan	LD 14+23	Japanese Club-*598*
[23]Nissen, Eugene W.	Alameda	LD 23+0	138 Encina
[4]Nittler, Rudolph John	Oakland	Law 59+47	236 Toyon
[4]Nivon, Angele Jeanne	Palo Alto	Span. gr.	610 Cowper-p
A.B., St. Catherine, 1920			
[5]Nivon, Georges	Palo Alto	Fr. gr.	610 Cowper-p
A.B., State College of Washington, 1921, A.M., 1921			
[234]Noack, William Raymond	Alameda	LD 34+27	216 Toyon
Noble, Burton Avery	San Francisco	Chem. 202+82	116 Toyon
A.B., Stanford, 1925			
[1]Noble, Le Grande	Alpine, Ariz.	Law gr.	726 Homer
B.S., Brigham Young, 1923			
[5]Noland, Harry Leslie	Saguache, Colo.	Law 177–8	122 Toyon-*1268*
Nolen, Barbara	Cambridge, Mass.	Hist. gr.	427 Embarcadero-p
[4]Nolin, Lewis Lorin	Dayton, Wn.	Educ. gr.	Menlo Park-p
A.B., State College of Washington, 1913			
Norberg, Raymond William	Los Angeles	Pre-Clin. 191+99	122 Toyon-*132*
A.B., Stanford, 1925			
[23]Norman, Sidney Winston	Los Angeles	LD 27+40	244 Encina-*537*
[3]Norrington, Roscoe Vincent	Burlingame	LD sp. 0–9	1044 Laguna Ave., B-b
[4]Norris, Paul Edison	Stanford Univ.	Chem. gr.	245 Toyon
A.B., Stanford, 1924			
[124]Northcross, Gleeson O.	Phoenix, Ariz.	LD 50·35–1	Phi Sigma Kappa
Northway, William H., Jr.	Hughson	Pre-Med. 139+128	81 Sequoia
[5]Norton, Oliver Edward	Palo Alto	Pol. S. gr.	645 Elm, SJ-sj
A.B., College of the Pacific, 1921			
[23]Norwood, Irving Carlisle	Beverly Hills	LD 40·31+31	106 Encina
[3]Nourse,Barbara Elizabeth	San Francisco	Ed.G.A.91+7	Kap.Kap.Gam.-*1354*
[4]Nowell, Charles Edward	Fresno	Hist. ‡	Toyon
[5]Nowell, George Madison	Palo Alto	Law gr.	368 Lytton-p
A.B., Stanford, 1923			
Nowell, John Chase, Jr.	San Mateo	LD 28–19	114MedwayRd.,SM-sm

[1]Nowell, Nelson T. Honolulu, T.H. Econ. 181+53 ThetaDeltaChi-*1331*
A.B., Stanford, 1925
[234]Nunn, Marshall Elbert Colo.Spgs.,Colo. Span. gr. 840 Bryant-p
A.B., Stanford, 1924
Nusbickel, Fred Parker San Dimas LD 12·44–5 110 Encina
[12]Nutter, Edward Allen Berkeley LD 27–20 46 Encina-*641*
Nutter, Katherine Louise Berkeley LD 23+6 328 Roble-*641*
Nye, Irvine Horace Alhambra LD 45–6 249 Encina-*2008*
[5]Oatman, Homer Clifton, Jr. San Diego LD 6·112+8 Zeta Psi-*B*
Obering, Ernest A. Birmingham, Ala. Geol. gr. 234 Union-*1426*
B.S., Chicago, 1922
O'Carroll, Harry J. San Jose Min. 45·113+3 84 Sequoia
O'Conor, Mary Helen Los Angeles Engl. 135·46+2 351 Roble-*1755*
A.B., Stanford, 1925
Odashima, Yozo Akitaken, Japan LD sp. 42–26 Redwood City-rc
[12]Odemar, Walter Henry Los Angeles Law 114+31 258 Toyon-*1299*
O'Donnell, Stephen Francis Los Angeles LD 78–22 Phi Gamma Delta-*1324*
[2]O'Dooley, Daniel Joseph Belmont Fr. 135·13+26 Belmont-b
Offerman, G. Henry Los Altos LD 59+20 Los Altos-la
Officer, Robert Holmes Washington, D.C. Econ. 45·90–4 AlphaDelta Phi-*JJ*
Ogden, George W., Jr. Los Angeles LD 99+81 115 Branner-*971*
Ogden, Lionel Edward Santa Monica LD 90–9 Delta Kappa Epsilon-*O*
Ogden, Roderick Alan Los Angeles Pre-Clin.92·94+57 105Branner-*971*
A.B., Stanford, 1925
[3]Ogden, William Winston Santa Monica LD 9–14 418 Encina
O'Hara, Francis Paul Los Angeles Med. gr. 2327 Sacramento, SF-sf
A.B., Stanford, 1924
O'Hara, Joseph Jerome Los Angeles Biol.-Med.50·141+15 PhiD.T.-*1334*
A.B., Stanford, 1925
Okada, Gishichi George Japan E.E. gr. 733 Ramona-p
B.S., California, 1924; Engineer, Stanford, 1925
[5]O'Keefe, Marcella Frances Menlo Park Hist. 45·83–2 Menlo Park-mp
[4]Okerlund, Gerda Maria Palo Alto Engl. gr. 173 Roble-*1124*
A.B., Washington, 1923, A.M., 1925
[234]Okumoto, Yoshio Hilo, Hawaii LD 24·29+16 206 Encina
Olds, Walter Keogh San Francisco Law 113 -18 Delta Tau Delta
O'Leary, Joseph Arthur Palo Alto LD sp. 44+6 667 Hamilton-p
[1]Oleson, Harry A. Gypsum, Colo. LD 46+37 1102 Ramona
Oliva, David Melvin San Francisco Law 194+136 142 Toyon-*I*
A.B., Stanford, 1925
[4]Oliver, Gerald Allen San Diego LD ‡ 133 Toyon
Oliver, Harriet Elizabeth Los Altos Soc. S.134+119 DeltaGamma-*1366*
Olmsted, Lois May Glendale LD 93+49 Delta Delta Delta-*1325*
Olney, C. Dorothy Berkeley Soc. S. 66·43+59 182 Roble
[4]O'Loughlin, Joseph M. San Francisco Sch. Ed. gr. 34 Cecil Ave., SJ-sj
A.B., Woodstock, 1917, A.M., 1918
[5]Olsen, Daniel Minter Palo Alto Educ. gr. 213 Toyon
A.B., Stanford, 1925
[23]Olson, Louis Victor Salt Lake City, U. LD sp. 32+17 3 Union
[23]O'Malley, Charles D. San Francisco LD 31+15 122 Encina
Oneal, Duncan San Jose Law 43·76+22 DeltaTauDel.-*1363*
[13]O'Neill, Francis Ignatius San Francisco Bact. gr. Alexandria Hotel-*872*
A.B., Stanford, 1925
[4]O'Neill, Thomas Joseph Los Angeles Chem. ‡ 117 Toyon

[4]Opgenorth, Olive Carolyn	Tacoma, Wn.	Hist. gr.	Roble
A.B., Wisconsin, 1916; A.M., Stanford, 1923			
Ophüls, Clara Louise	San Francisco	LD 44+32	337 Roble
Orem, Hollis Milon	Salt Lake City, U.	LD 95+96	1205 Fulton-p
[5]Orme, Lindley Henry	Phoenix, Ariz.	Law gr.	616 Forest-p
A.B., Arizona, 1923			
Orme, Richard Edward	Oakland	Med. gr.	559 Cowper-p
A.B., California, 1923			
Orr, Paul Wright	Modesto	S. Biol. 199+83	39 Sequoia-*72*
A.B., Stanford, 1925			
[1]Ortega, Jose Alvaro	Manila, P.I.	Law ‡ 0–13	711 Cowper-p
Orton, Frederick Gutherz	San Francisco	LD 43+23	425 Encina
Osborn, Clarence Gladden	Los Angeles	Hist. 5·116+155	Alpha Delta Phi
Osthaus, Franz	Los Angeles	LD 91+51	Delta Upsilon-*1353*
[4]Otis, Nevin Lowell	Norwalk	LD ‡	Pacific Grove-pg
Otis, Webster Bailey	Pasadena	Econ. 142+36	103 Branner
[2]Ott, George Earl	Washington, D.C.	Phys. gr.	Menlo Park
Otterson, Otto Harold	Post Falls, Ida.	M.E. 122·60+13	188 Bryant-p
A.B., Stanford, 1925			
[4]Otto, William August	Kerman	Sch. Ed. gr.	305 Cowper-p
A.B., Michigan, 1906			
Overfelt, C. Harold	San Jose	Econ. 180+174	Sigma Nu-*1385*
A.B., Stanford, 1925			
[4]Overfelt, Dorothy Louise	San Jose	Sch. Ed. gr.	303 Roble-*1325*
A.B., Stanford, 1924			
[4]Overfield, Frank Paul	Everett, Wn.	Sch. Ed. gr.	Middlefield-p
A.B., Pennsylvania State, 1917			
[5]Oviatt, G. Tod	Santa Barbara	Hist. 127+26	PhiDeltaTheta-*1334*
Owen, Edna May	Napa	LD 30–6	625 Hamilton-p
[28]Owen, Erwin Wesley	Bakersfield	Econ. 90·27+40	10 Sequoia-*1714*
Owens, Edgar Preston	Aetna Springs	LD 77+5	340 Lowell
[4]Owens, Nancy Campbell	San Jose	Ed. G.A. gr.	195 Reed, SJ-sj
A.B., San Jose State Teachers College, 1924			
Ownby, James, Jr.	Gridley	LD 86+23	Kappa Sigma-*1326*
Oyama, Masao	Tokyo, Japan	LD 82+22	314 Toyon-*839*
Pabst, William Dorsey	San Francisco	LD 30–23	308 Encina-*1602*
[4]Padgett, Vernon W.	Texarkana, Ark.	LD	234 Union
Page, Benjamin H.	San Mateo	Med. gr.	2085 Sacramento, SF-sf
A.B., Stanford, 1922			
[4]Page, Dorothy	Santa Barbara	Fr. 126·16+23	Roble
[23]Page, Howard Wheeler	Los Angeles	LD 76+20	1001 Ramona-p
Page, Iola Alma	Alameda	LD 45+27	179 Roble-*504*
[4]Page, Ross	Pasco, Wn.	Educ. gr.	577 Hanover, M-m
A.B., State College of Washington, 1920			
Page, William Alexander	Los Angeles	LD 45+30	407 Encina-*1991*
[13]Paine, Roy Eddy	San Francisco	LD 98+110	San Juan-*1323*
[5]Painter, David Staples		LD 13+3	328 Encina-*1787*
Palisi, Thomas	San Francisco	Pre-Med. 91·44+35	611 Bryant-p
Palette, Edward Choate	Los Angeles	Pre-Clin. 185+28	BetaThe.Pi-*1335*
A.B., Stanford, 1925			
[5]Pallette, Warren Sumner	Los Angeles	Law 115+65	Beta Theta Pi-*1335*
[4]Palmer,Howard Hunt	Wrentham, Mass.	Sch. Ed. gr.	Madroño
B.S., Tufts, 1921			
Palmer, W. Lewis	Palo Alto	LD 81+48	369 Churchill-p

Palstine, John Orrick	Long Beach	Law 106·48+17	*323 Union*
Paradise, Robert Eliot	Los Angeles	LD 49·42+58	250 Encina-*1792*
Pareja, Francisco	Cuzco, Peru	LD 51+51	909 Alma-p
[5]Paris, Claude Henry	San Francisco	Econ. 147+6	*220 Toyon-1855*
[12]Park, Harold Raymond A.B., Stanford, 1925	Spokane, Wn.	M.E. 202+214	604 Gilman-p
Park, Kenneth Marvin	San Francisco	LD 93+148	24 Branner
[5]Parker, Darrell Russell	Phoenix, Ariz.	Law 50·105+73	PhiSigmaKap.-*538*
Parker, Elizabeth A.B., Stanford, 1925	Baker, Ore.	Engl. gr.	218 Roble-*963*
[4]Parker, Louise Elizabeth	Santa Ana	LD ‡	234 Roble-*1127*
[1]Parker, Richard Cloyd	Los Gatos	LD *32–25*	Delta Chi-*1304*
Parks, Charles Helmer A.B., Stanford, 1925	Cody, Wyo.	Econ. 183+32	Phi Kappa Psi-*1333*
[4]Parry, Paul Cranston	Menlo Park	LD ‡	Menlo School, MP-mp
Parson, Charles Elliot	De Kalb, Ill.	Phys.78·82+20	Phi Gam.Del.-*1324*
Parsons, Jack	Menlo Park	LD 78–11	Menlo Park-mp
Parsons, Lloyd Samuel	Palo Alto	LD 57+21	633 Middlefield-p
[5]Parsons, William Henry	Santa Cruz	LD 107–5	Delta Tau Delta-*1363*
Partridge, Ruth Elizabeth	Palo Alto	Span. 150+148	177 Everett-p
[5]Passey, Edward John B.S., Utah Agricultural, 1915	Logan, Utah	Geol. gr.	Menlo Heights
Pastorius, Horace Evans, Jr.	Redlands	Econ. 136+23	AlphaSig.Phi-*1357*
[5]Patacsil, Anselmo G.	Nueva Ecija, P.I.	Educ. 164+40	Palo Alto-*1258*
[12]Patacsil,Gregorio C. A.B., Stanford, 1924	Bauang,Union,P.I.	Pol. S. gr.	14 Alvarado-*900*
Patchett, Ernest Lynn	San Luis Obispo	LD 43+45	451 Encina-*1564*
Patchett, Hubert Allen	San Luis Obispo	LD 45+6	451 Encina-*1564*
Patek, Sadie D. A.B., Stanford, 1911	San Francisco	Anat. gr.	Kingscote-*1152*
Patrick, David Lyall A.B., Iowa, 1922	Iowa City, Iowa	Engl. gr.	9 Union-*1621*
[4]Patrick, John Clarence A.B., Stanford, 1922	San Francisco	Sch. Ed. gr.	Delta Upsilon
[4]Pattee, Howard Hunt A.B., Pomona, 1922	Chino	Educ. gr.	718 Palo Alto Ave., M
Patterson, Edmund DeWitt,Jr.	Redlands	LD 45+17	108 Encina-*1221*
[5]Patterson, Robert Darl	Santa Maria	Geol. 42·138+131	*223 Toyon-631*
Pattiani, Elizabeth	Piedmont	LD *22·73+51*	Delta Gamma-*1366*
[1]Patton, Robert Taylor A.B., Stanford, 1923, J.D., 1925	Palo Alto	Law gr.	436 Waverley-p
Paulsen, Catherine Margaret A.B., Stanford, 1925	Palo Alto	Engl. 10·175+114	602 Waverley-p
[1]Paulsen, Helen Carolyn A.B., Stanford, 1923	Palo Alto	Ed. G.A. gr.	602 Waverley-p
[4]Paulson, Paul A. A.B., Colorado, 1917	San Francisco	Sch. Ed. gr.	471 Channing-p
[1]Payne, Hobart Alsom	Bakersfield	LD ‡ 15–16	454 Hamilton-p
Payne, Melville Eugene	San Diego	M.E. 90·46+11	*53 Sequoia-1233*
[5]Payne, Oscar E.	Pawhuska, Okla.	Econ. 82·91+24	777 Bryant-p
Payton, Curtis Charles	Ferndale	LD 50+0	1340 Byron-p
Pearce, Mercedes A.B., Stanford, 1925	Redwood City	Ed. G.A. gr.	708 Jefferson, RC-rc
[12]Pearson,HarrellB.,Jr.	Calg'ry,Alta.,Can.	LD 83+2	206 Branner-*566*

[5]Pearson, Walter Lyall — Faloma, Ore. — Econ. 71·63+28 — 1401 Emerson-p
Pease, Marjorie Estelle — Palo Alto — LD 91+83 — 327 Hamilton-p
[5]Peasley, Margaret — Los Angeles — LD 50+22 — 338 Roble-*1336*
Peck, Alice Hawley — Los Angeles — Psych. 116+26 — Gam.PhiBeta-*1337*
Peck, John Broderick — Honolulu, T.H. — LD 45+36 — 117 Encina
[4]Peck, Louise — Faribault, Minn. — Educ. gr. — Roble
A.B., Minnesota, 1903
Peck, Sara Katheryn — Merced — LD 98+117 — 236 Roble
[23]Peery, David Harold — Porterville — Econ. 13·171+24 — Del.Upsilon-*1353*
A.B., Stanford, 1925
Peet, Robert Barfe — Palo Alto — Chem. gr. — 470 Coleridge-p
A.B., Stanford, 1924, A.M., 1925
Pegram, Reginald Byrne — Los Angeles — Econ.108+12 — Al.TauOmega-*1384*
Peirce, Carolyn — Palo Alto — Chem.166+230 — 281 Embarcadero-p
[4]Peirce, Lovell H. — Grand Junction, Colo. — Chem. gr. — 475 Hamilton-p
A.B., Colorado College, 1920; A.M., Stanford, 1924
[12]Peirsol, Madge — Claremont — Med. gr. — 10 Mirada
A.B., Pomona, 1921
Pendergrass, Clayton Ira — Clovis — Pre-Med. 90·46+3 — 1701 Bryant-*567*
[5]Pendleton, Philip Yancey — Phoenix, Ariz. — Law 48·45+23 — 236 Encina
Penepacker, Frank M. — Hoquiam, Wn. — C.E. 183+61 — 225 Toyon-*917*
A.B., Stanford, 1925
[12]Pennington, Richard L. — Burlingame — LD sp. 19–15 — 1619 Willow, B-b
[4]Peocock, Laura Alice — Palo Alto — Educ. ‡ — 551 Lytton-p
Pepys, Frederick Courtenay — La Jolla — Law 5·134+71 — 720 Cowper-p
Percy, Robert Wellesley — Rochester, N.Y. — LD 47+42 — 345 Lincoln-*1591*
Percy, William Armstrong — Los Angeles — LD 66+0 — Zeta Psi-*B*
Perham, Don DeBlois — Palo Alto — Engl. gr. — 335 Melville-p
A.B., Stanford, 1924
Pering, Alfred Vernon — Palo Alto — LD 124+49 — 660 Forest-p
Perkins, Barbara M. — San Francisco — LD 88+87 — Kap.AlphaTheta-*1336*
[1]Perkins, Thomas Dunn — Los Angeles — LD 61+49 — 239 Toyon
Perovich, Paul — San Jose — Chem. 82·39–5 — 1776 Pac.,SJ-*1887*
Perrin, Harry Burnham — Mankato,Minn. — LD 76·46+25 — 247 Encina-*581*
[4]Perry, Raymond Carver — Santa Monica — Math. ‡ — 328 Union
Peter, Leslie Harber, Jr. — Oakland — Pol. S. 4·177+167 — 114 Encina-*897*
A.B., Stanford, 1925
Petersen, Camilla — San Francisco — Engl. 135·47+26 — 208 Roble-*959*
A.B., Stanford, 1925
Petersen, Carol B. — San Carlos — LD 78+51 — Chi Omega-*1386*
Petersen, Jennie Marie — Richfield, Utah — Chem. 182+92 — 118 Roble-*532*
A.B., Stanford, 1925
Peterson, Algot Julius — Palo Alto — Law gr. — 660 Waverley-p
A.B., Stanford, 1923, J.D., 1925
Peterson, Edward John L. — Turlock — C.E. 90·49+54 — 54 Sequoia
Peterson, Grace Caroline — Claremont — Psych. 100·80+96 — PiBetaPhi-*1332*
A.B., Stanford, 1924
Peterson, Harold W. — Portland, Ore. — LD 95+102 — 22 Branner
[4]Peterson, John Thomas — Sutter Creek — Educ. gr. — Zeta Psi-*1384*
A.B., Wyoming, 1917
Peterson, Thomas John — Los Angeles — LD 43+35 — 323 Encina-*1892*
[4]Pfimmer, Vashti — Oakland — Educ. gr. — 365 Roble
A.B., Iowa State Teachers College, 1924
[4]Phair, Carter Niles — Sebastopol — Educ. 34·94+71 — 521 Fulton

[4]Phair, Ruth Churchman	Sebastopol	Psych. 106+98	521 Fulton
[5]Philen, James Gilbert, Jr.	Hearne, Tex.	Econ. 111·54+33	PhiKap.Psi-*1333*
Philip, George Cecil	Omaha, Neb.	LD 72–9	616 Cowper
Philippi, Robert Louis	Norwalk	LD 44+38	351 Encina
[124]Phillips, LaForest E., Jr.	Palo Alto	Pre-Med. 18·135+1	337Hamilton-p
[4]Phillips, Marion Blanche A.B., California, 1921	Glendale	Engl. gr.	11 Salvatierra
[4]Pickett, Pauline A.B., Southern, 1901, A.M., 1902	Fresno	Engl. gr.	348 Guinda
[3]Pierce, Billy Mack	Hedgesville, Mont.	LD 13+7	27 Encina
Pierson, Floyd B. A.B., Stanford, 1920	Turlock	Hist. gr.	Stanford Park
Pigott, Josephine Gwenneth	San Jose	LD 42·45–3	105 Roble
Pike, Ruthven Wedgwood B.S., Chicago, 1920; A.M., Stanford, 1925	Chicago, Ill.	Geol. gr.	334 Amherst, M-*1363*
Pillsbury, Arthur Francis	Yosemite	LD 82+41	434 Encina-*24*
Ping, Er-Chang A.B., Stanford, 1925	China	Zool-Med.85·113+34	328Un'n-*1119*
[34]Plant, Lucia Sarah	Palo Alto	Engl. 135·15+14	426 Waverley-p
[4]Plate, Agnes	San Jose	LD ‡	Pacific Grove-pg
[4]Platt, Frances Drake	Martinez	Span. ‡	115 Alma-p
[5]Playter, Robert Franklin	Joplin, Mo.	Geol. 165+81	PhiDeltaTheta-*1334*
Pleasants, Frances A.B., Stanford, 1924	Nampa, Idaho	Hist. gr.	Alpha Phi
Plimpton, John Edward A.B., Stanford, 1925	Los Angeles	Econ. 182+62	504 Encina
Plowe, Janet Quentin A.B., Stanford, 1925	Hollywood	Bot. gr.	325 Roble-*647*
[1]Poco, Alfrida Françoise C.	Reno, Nev.	Fr. 120+96	Kap.AlphaTheta-*1336*
Polland, W. Scott A.B., Stanford, 1925	San Francisco	Pre-Clin.188+272	Sig.Al.Eps.-*1305*
Pollock, Dorotha Rutter A.B., Stanford, 1925	Santa Ana	Hist. 67·113+36	SigmaKappa-*1327*
Pollock, Wayne Evans A.B., Stanford, 1924	Clarksburg	Med. gr.	2548 Fillmore, SF-sf
Pond, Frederick Raleigh A.B., Stanford, 1924, A.M., 1925	Napa	Engl. gr.	541 Encina-*1707*
[12]Poole, John Hammerson A.B., Stanford, 1925	Redwood City	Econ. 180+57	248 Wash'ton,RC-rc
Pooler, Elizabeth Frances A.B., Stanford, 1924	San Francisco	Sch. Ed. gr.	Chi Omega-*1386*
[1]Pope, Charles St. George	Sacramento	LD 117+43	Chi Psi-*588*
Porteous, Candace A.B., Stanford, 1925	Riverside	Ed. G.A. 90·93+59	347 Roble-*904*
[5]Porter, Alan	Rochester, N.Y.	LD sp. 82+74	635 Bryant-p
Porter, Merlin Ware	Santa Cruz	Econ. 103·45+24	84 Sequoia
Porterfield, Robert R. A.B., Stanford, 1925	Santa Monica	Geol. 186+124	Theta Xi-*1355*
Posgate, Robert Nelson	Vancouver, B.C.	LD sp. 55+42	281 Embarcadero-p
Post, Alfred Breed, Jr.	San Jose	LD 93+51	AlphaKap.Lamb.-*658*
Post.Elias Fred	Berkeley	LD 45+34	216 Encina-*1911*
Post, Hoyt Gibbard	Los Angeles	LD 40+1	408 Encina-*2011*
Post, Seraphim Fred	Berkeley	LD 91+137	Zeta Psi-*1911*
Postlewaite, William R. A.B., Stanford, 1925	Seattle, Wn.	M.E. 196+116	Theta Xi-*1355*

Potter, Charles Clinton	Los Angeles	LD 63–18	21 Cabrillo-*122*
Potts, F. Ernest	Los Angeles	C.E. 148+13	302 Toyon-*1472*
Potts, George Hamilton	Los Angeles	LD 49+14	232 Encina-*1472*
Poulson, Wardle Ellis	Beverly Hills	LD 88+8	Beta Theta Pi-*1521*
Pouppirt, Pearl Sylva A.B., Stanford, 1921	Palo Alto	Med. gr.	2120 California, SF-sf
[4]Powell, Viola Mae A.B., California, 1923	San Jose	Engl. gr.	Menlo Heights-*1593*
[4]Power, Philip A.B., California, 1915	Hollister	Sch. Ed. gr.	Kingscote
[4]Power, Rose Cummins	Hollister	Pol. S. ‡	Kingscote
Powers, Herbert William	Pacific Grove	M.E. 141+74	26 Sequoia-*1180*
[24]Prather, John Roy	Los Angeles	LD 44·26+7	202 Encina-*1334*
[5]Pratt, Arthur Clarence	Pacific Beach	Econ. 75·101+49	PhiDel.The.-*1334*
[23]Pratt, Charles Pearson	San Francisco	LD 51–15	9 Sequoia-*2035*
Prentice, Sartell, Jr. A.B., Stanford, 1925	Nyack, N.Y.	Mil. S. 90·90+35	115 Branner-*552*
Preston, Harold Orum A.B., Stanford, 1923, J.D., 1925	Pacific Grove	Law gr.	20 Sequoia-*1242*
[4]Prewett, Hattie O. A.B., Colorado State Teachers College, 1924	San Diego	Psych. gr.	159 Roble
Price, Fred V.	Long Beach	LD 83+4	DeltaKappaEpsilon-*OO*
Price, Harriet Frederica A.B., Stanford, 1925	Palo Alto	Zool. 88·92+50	550 Embarcadero-p
[13]Price, Henry B., Jr.	Bryn Mawr, Pa.	C.E. 133–21	SigmaAlphaEps.-*1305*
[5]Price, John Basye	Stanford Univ.	LD 35+21	5 Alvarado-*733*
[1]Price, Joseph Pressly A.B., Stanford, 1925	Oakland	M.E. 187+1	562 Encina-*1002*
Price, Luther Glynne A.B., Stanford, 1925	Kosse, Tex.	Bact. 135·46+44	975Hamilton-*1677*
Price, William Clay	Los Angeles	LD 58+9	207 Encina
Prichard, DeForest	Palo Alto	LD 35+10	16 Encina
[1]Prince, David Treadway	Carmel	LD 32–30	601 Webster
Prior, Joseph Clifford A.B., Stanford, 1924, J.D., 1925	Sheffield, Ill.	Law gr.	20 Sequoia-*1242*
Prisinzano, James Edward	San Mateo	LD 47+74	109 Encina
Probasco, Barbara Sherman	Burlingame	LD 93+108	DeltaDeltaDelta-*1325*
Purcell, James Coughlin	Represa	LD 43+25	421 Encina
Purnell, George Roberts	Sacramento	Engl. 133+59	26 Branner-*124*
[12]Purviance, Charles Emmet B.L., California, 1914; A.M., Stanford, 1923	Palo Alto	Educ. gr.	236 Seale-p
[1]Putcamp, William J.	Carbondale, Ill.	LD 31·119–10	University Park
Pyzel, Ewald A.B., Stanford, 1925	Piedmont	M.E. 99·83+19	14 Sequoia
Pyzel, Frederic Marinus	Piedmont	Chem. 96·72+55	14 Sequoia
[4]Quackenbush, Carl C. A.B., Carleton, 1922	Spokane, Wn.	Law gr.	Palo Alto-p
[4]Quackenbush, Marian L. A.B., Whitman, 1923	Weitsburg, Wn.	Educ. gr.	Palo Alto-p
Quayle, Elwood LeRoy	Oakland	LD 39–1	246 Encina
[13]Quigley, John Scott	Alameda	S. Biol. 157+10	Sig.Al.Eps.-*1305*
[4]Quinley, Lester Herbert A.B., College of the Pacific, 1923	Ceres	Sch. Ed. gr.	353 Lytton
Quinlan, James B.	Glendora	Pol. S. ‡ 30–*22*	525 Hamilton-p

Quinn, Dorothy Margaret	Stockton	LD 40+3	321 Roble
Quinn, Edward Morgan	Stockton	LD 41+3	301 Encina
[5]Quinn, Rupert Mortimer	Hollywood	Econ. 135·47–1	211 Union-*1105*
Quinn, Thomas Brennan	Stockton	Law 125+48	Sigma Nu-*1385*
[4]Quirk, Alexander B.	Ypsilanti, Mich.	LD ‡	Alpha Delta Phi
Quirmbach, Robert Paul A.B., Stanford, 1925	Needles	S. Biol.-Med. 184+74	329 Union
Quivey, Lynn Arthur A.B., Nebraska, 1914, A.M., 1915	Palo Alto	Engl. gr.	245 Cowper-p
[5]Raaf, John Elbert	Pocatello, Ida.	LD 36·94+132	252 Toyon-*1468*
Rachford, Leo Charles	Mountain View	LD 47+16	251 Palo Alto, MV-mv
Rackliff, Luella Marie A.B., Stanford, 1924, A.M., 1925	Hollister	Math. gr.	Delta Delta Delta-*1325*
Rae, James Ewing	Pasadena	LD 44+27	228 Encina-*1423*
Raffetto, E. Joseph	Santa Barbara	LD 72–10	Kappa Sigma-*1326*
Railey, Ida Dixon	Los Altos	LD 45+13	215 Roble-*849*
Railsback, Oscar C. A.B., Stanford, 1923	Hanford	Med. gr.	2286 Jackson, SF-sf
[3]Rainey, Phillip Wenslav	San Francisco	LD 13–3	232 Encina-*1755*
[5]Ramey, Earl A.B., Stanford, 1925	Palmdale	Sch. Ed. gr.	311 Union-*1126*
[3]Ramsay, Kenneth E. A.B., Bowdoin, 1915	Farmington, Me.	Law gr.	1429 Emerson-p
[24]Ramsey, Harold Thomas B.S., Missouri, 1918	Maryville, Mo.	Educ. gr.	659 Middlefield-p
Ramsey, William Maxwell	Yuma, Ariz.	LD 93+10	Sigma Chi-*628*
Randall, Velma Margaret	Los Angeles	LD 78+76	Pi Beta Phi-*1332*
[5]Randolph, Ralph Baker	San Diego	Econ.‡90·48–3	PhiDel.Theta-1334
Rankin, Ansil Robert	Samoa	LD 42+19	106 Encina
Rankin, Carlisle Clark	Palo Alto	LD 56–10	AlphaTauOmega-*1384*
Rankin, Wallace Edmunds A.B., Stanford, 1922	Glen Ellen	Hist. gr.	508 Encina
Ranney, Rufus Percival	Cleveland, O.	LD 44+34	15 Encina-*817*
Rapp, Robert E.	Minneapolis, Minn.	Pol. S. 98·44+41	538 Encina-*1893*
[12]Rasmussen, Elmer Christian	San Jose	Econ. 145–1	1060 Alameda, SJ-sj
Rathbone, Robert Hale A.B., Stanford, 1924	Hollywood	Med. gr.	2321 Sacramento, SF-sf
Rathman, Norman Keith	Blair, Neb.	LD 80·89–15	56 Sequoia-*1162*
[28]Ray, Charles Richard	San Mateo	LD 24·33+23	445 Encina-*1407*
Ray, Herndon Carroll	Davis	LD 38+0	8 Dolores-*2053*
[4]Ray, James Melvin	Redwood City	Educ. ‡	416 Alden, RC-rc
Ray, William Alton	San Mateo	LD 99+38	207 Branner-*1407*
[2]Raymond, James Harvey	San Francisco	LD 0–11	
[2]Raymond, Natalie Margaret	Pasadena	Psych.87·83+108	1400Webster-*874*
[34]Read, Grace Fletcher	Oakland	Soc. S. 66·100+75	Al.Om.Pi-*1367*
Read, Jesse Wilmot	Tacoma, Wn.	LD 97+117	Pacific Grove-pg
Read, Joseph Clark	Long Beach	LD 34+14	112 Encina-*1653*
Reasoner, John Snively	Lincoln, Neb.	LD 44+48	326 Encina-*1945*
Reed, Marian Elizabeth	Long Beach	Engl. 96·47+56	175 Roble-*1073*
Rees, Edward Gwilym	Denver, Colo.	Chem. 96·40+17	20 Cabrillo
Reese, Charles Alonzo, Jr. A.B., Stanford, 1925	San Jose	Hist. gr.	93 N. 33rd, SJ-sj
[1]Reese, James Nesbit	Beaver Falls, Pa.	LD 4–14	Theta Delta Chi-*T*

[12]Reese, Lewis, Jr.	Modesto	M.E. gr.	108 Branner-*1855*
A.B., Stanford, 1925			
[234]Reeves, David Lander	SaltLakeCity,U.	Bact. 43·79+26	Chi Psi-*635*
[4]Regan, Agnes Elizabeth	Menlo Park	Engl. gr.	Menlo Park-mp
A.B., Sacred Heart, 1924			
Rehm, Norman Robert	Bishop	LD 70–10	19 Toyon-*1855*
Reich, August, Jr.	Bakersfield	LD 52+46	315 Encina-*929*
[4]Reichmuth,Anton Lawrence	S. Francisco	LD 73–15	Sigma Alpha Epsilon
[4]Reid, Frances	Phoenix, Ariz.	LD	616 Forest-p
[5]Reimer, Herbert Carl	Chico	Educ. gr.	335 Union
A.B., Nevada, 1924			
[12]Reinhart, Henry Clayton	Toledo, O.	Econ. 119·70+8	Al.Sig.Phi-*1357*
A.B., Stanford, 1925			
Reinking, Lillian A.	Baraboo, Wis.	Educ. gr.	610 Cowper-p
A.B., Wisconsin, 1911			
[12]Reinoehl, Donald Earl	Carmel	LD 52–22	1144 Fulton-p
Reiss, Malcolm B.	San Francisco	Econ. 9·127+51	218 Branner-*1511*
Relph, Harold Edward	San Jose	Pol. S. 142+40	115 Sierra, SJ-sj
[2]Rendtorff,GertrudeEmma	StanfordUniv.	LD 63+37	30 Alvarado-*1302*
Renton, Helen Elizabeth	Berkeley	Hist. 90·92+47	Pi Beta Phi-*1332*
A.B., Stanford, 1925			
[4]Renfrow, Thomas Owen	Kingsburg	Educ. ‡	228 Union
[1]Reticker, Roland Wilson	Los Angeles	Econ. 50·130+4	Delta Chi-*1304*
A.B., Stanford, 1925			
Rettig, Fred Emmett	Palo Alto	LD 30+5	Box 34B, Rt 1, p
Rey, Maurice René W.	Liége, Belgium	Min.gr.	Cedro Cottage-*1483*
Engineer, University of Liége, 1924			
Reynolds, Charles Lee, Jr.	Portland,Ore.	M.E. 111+1	ThetaDeltaChi-*1828*
[3]Reynolds, Charlotte Almira	Palo Alto	LD 65+47	Pi Beta Phi-*1332*
Reynolds, Herbert K.	Portland, Ore.	LD 50+55	403 Encina-*1884*
Reynolds, James Eugene	Pasadena	LD 39–9	251 Encina
[4]Reynolds, Priscilla M.	Sparks, Nev.	Sch. Ed. gr.	Madroño
A.B., Nevada, 1923			
Rhine, Nathan Albert	Bishop	LD 90+11	308 Branner-*62*
[5]Rhodes, Orlando Hunter	Santa Monica	Law gr.	Phi Kappa Psi-*1333*
A.B., Stanford, 1924			
[4]Ribelin, Wilber D.	Tucson, Ariz.	S. Biol. ‡	Pacific Grove-pg
Rice, Jefferson LeRoy	Meadville, Pa.	Econ. ‡ 27–23	PhiDel.Theta-*1334*
Richards, John Henry	Randlett, Utah	M.E. 99·99+107	238 Branner-*1295*
[124]Richards,Lawrence Wayne	Los Angeles	Geol. 162–9	Delta Upsilon-*1353*
Richards, Mermon C.	Long Beach	LD 56+18	209 Encina
[4]Richardson, Alice	Pomona	Ed. G.A. gr.	Roble-*901*
A.B., Pomona, 1910			
Richardson, Helen Dale	San Jose	Germ. 87·103+22	AlphaOmicronPi
A.B., Stanford, 1925			
Richardson, M. Bruce	San Francisco	LD 87+61	134 Toyon-*1883*
Richardson, William Hord	Los Angeles	LD 110+33	Delta Upsilon-*1353*
Richman, Frederick Ingleby	Los Angeles	LD 97+106	Theta Chi-*1383*
[4]Rideout, Charlotte Wythe	Berkeley	Engl. gr.	Pine Grove, M-m
A.B., College of the Pacific, 1912; A.M., Stanford, 1920			
[124]Ridley, Daniel Graves	San Jose	Law gr.	121 Toyon
A.B., Stanford, 1924			
[12]Ridley, Kenneth Felton	San Jose	LD 65+52	512 Cherry, SJ-sj
[13]Ridley, Newton Robly	San Jose	LD 29+14	512 Cherry, SJ-sj

[1]Riege, George Charles — Fresno — LD 15+0 — 236 Encina
[23]Riese, Elmer F. — Huntington Park — LD 68+1 — Phi Delta Theta-*1334*
Riese, Raymond Max — Huntington Park — LD 89+88 — Phi Delta Theta-*1334*
[23]Riley, James R., Jr. — Spreckels — C.E. ‡ 54–15 — Theta Chi-*1383*
Ring, Laurence Martin — Santa Monica — Law 90·41+9 — 404 Encina-*1727*
Rinn, Robert Henry — Lodi — Law 190+246 — 34 Sequoia-*1292*
A.B., Stanford, 1925
Rippey, Stanton — Los Angeles — Pol. S. 180+76 — 116 Branner
A.B., Stanford, 1925
[1]Rispin, Winfield Alan — Capitola — LD 0–22 — Phi Sigma Kappa-*538*
[4]Ritch, Charlene Mynette — Los Angeles — LD 14+6 — Kingscote
[12]Ritchie, Kenneth S. — Stanford Univ. — Chem. gr. — 554 Encina-*1180*
A.B., Stanford, 1921, Engineer, 1923
[1]Riter, Samuel W. — Logan, Utah — Geol. gr. — 449 Encina
B.S., Utah, 1921
Ritland, Hubert Oliver — La Mesa — M.E. 150+84 — 25 Alvarado
Rittenhouse, Helen M. — Phoenix, Ariz. — LD 90+38 — Gamma Phi Beta-*1337*
[28]Rittler, Lida — Palo Alto — LD 30+18 — 339 Seale-p
Rivera, Gabriel Alfonso — Los Angeles — Pre-Med. 124·46+56 — Encina-841
Rivero, Manuel — Caracas, Venez. — LD 41+7 — 19 Encina-*1484*
Riveroll, Sheldon Elfego — San Diego — LD 46+13 — 429 Encina-*855*
[4]Rivers, Mildred Calkins — Reedley — Fr. gr. — 424 Seneca-p
B.S., Central Missouri State Teachers College, 1922
[4]Rivers, Paul Lon — Reedley — Educ. gr. — 424 Seneca-p
B.S., Central Missouri State Teachers College, 1925
Rixford, Emmet Lane — San Francisco — Zool. 137+68 — Theta Chi-*1383*
Rixford, Henry Covington — San Francisco — Zool. 133+56 — 214 Toyon-*837*
[1]Rixford, Mary Campbell — San Francisco — Pre-Nurs. ‡ — 176 Roble
Robbins, Carl Burton — Port Norris, N.J. — Econ. gr. — 431 University-p
A.B., Stanford, 1924, A.M., 1925
[23]Robbins, Sidney Horace — San Francisco — LD 25–13 — 204 Encina-*2022*
[5]Robert, Henry Flood — Coronado — LD 79+3 — Zeta Psi-*B*
[4]Roberts, Ada Jane — McCleary, Wn. — Hist. 16·98+125 — 557 Hamilton-p
[12]Roberts, Andrew Aldrich — Stanford Univ. — LD 70+18 — Phi Sigma Kappa-*538*
Roberts, Archie Marvin — Los Angeles — Med. gr. — 440 Cowper-p
A.B., Southern California, 1924
[1]Roberts, Dwight Conklin — Los Angeles — Min. gr. — Delta Upsilon-*1353*
A.B., Stanford, 1924, Engineer, 1925
[4]Roberts, Esther W. Lindberg — Redlands — LD ‡ — Madroño
[5]Roberts, George Duncan — San Diego — Econ. 172+31 — Phi Delta Theta-*1334*
[12]Roberts, Gilchrist Porter — Stockton — LD 15–22 — 234 Encina
[1]Roberts, John Huber, Jr. — Burlingame — S. Biol. ‡ 54–21 — 233 Union-*1512*
[4]Roberts, Marian J. — Palo Alto — LD ‡ — 500 Melville-p
Roberts, W. Jim — Burlingame — LD 36+0 — 117 Encina-*2055*
[4]Roberts, William Henry — Redlands — Psych. gr. — Madroño
A.B., Rochester, 1910
Robertson, Alan Hazelton — Santa Monica — Law 148+87 — Phi Kappa Psi-*1333*
Robertson, Donald Logan — Modesto — Med. gr. — 2186 California, SF-sf
A.B., Stanford, 1924
Robertson, George Donville — Los Angeles — LD 32+5 — 231 Encina-*2052*
Robertson, John W. — San Francisco — Phyl. 171+75 — 302 Branner
Robertson, Margaret M. — San Francisco — Med. gr. — 2475 Filbert, SF-sf
A.B., Stanford, 1922
Robesky, Donald Albert — Bakersfield — LD 43+20 — 17 Encina-*1954*

[4]Robinson, Arthur Alan — Fresno — LD ‡ — 141 Toyon-*1097*
[34]Robinson, Dwight Louis — Sapulpa,Okla. — LD 67·61–2 — Phi Delta Theta-*1334*
[23]Robinson,Frances du Brutz — Aurora,Ore. — S. Biol. 164+49 — 1200 Bryant-p
[3]Robinson, Marjorie Hunter — Berkeley — LD 21·14+9 — 375 Roble
[4]Robinson, Price — Fresno — Sch. Ed. gr. — Community House-p
A.B., Stanford, 1924
Robinson, Sidney William — Reno, Nev. — Law gr. — 507 Encina-*R*
A.B., Nevada, 1924
[1]Roby, Richard R. — Colo. Springs, Colo. — M.E. 111–18 — 635 Bryant-p
Rockefeller, Howard, Jr. — Los Angeles — Law gr. — Zeta Psi-*B*
A.B., Dartmouth, 1923
[3]Rode, Howard — Oakland — LD 14+6 — 119 Encina
Rodegerdts, Carl Ernst — Sacramento — LD 95+30 — Sigma Chi
Roehr, George Lowell — Hughson — LD 35+8 — 108 Encina
Rogers, Alfred Emery — Los Angeles — Law 156+36 — Delta Chi-*1304*
*[4]Rogers, Edwin A. — McGill, Nev. — M.E. gr. — McGill, Nev.
A.B., Stanford, 1910
Rogers, Genevieve — Stanford Univ. — Engl. 163+154 — 15 Salvatierra-*87*
Rogers, Lee Hershey — Portland, Ore. — LD 136–3 — Phi Sigma Kappa-*538*
[4]Rogers, Mildred K. — Wessington, S.D. — Zool. gr. — Pacific Grove-pg
A.B., Huron, 1918
Rogers, William Lister — Hayward — Med. gr. — 2215 Buchanan, SF-sf
A.B., Stanford, 1923
[34]Roll, Ella Louise — Santa Clara — Educ. gr. — 350 Roble
A.B., Stanford, 1917
Rolley, Leslie Eugene — Mayfield — M.E. sp. 173+10 — Mayfield-*521*
Romanofski, Anton — San Bruno — LD 46+29 — San Bruno-sb
[4]Romer, Andrew Ralph — Palo Alto — Educ. gr. — 406 Ramona-p
A.B., Emporia, 1916
Rood, Reginald Shepard — San Diego — LD 93+129 — SigmaAlphaEps.-*1305*
Roodhouse, Edwin Greenlee — Alhambra — Law 131+19 — Sigma Chi-*628*
[3]Root, Enid Doris — San Francisco — Span. 37·84–4 — Roble
Root, Herbert Blanchard — Wasco — LD 39–16 — 18 Encina
Root, Louis — New York, N.Y. — LD 45+30 — 15 Encina-*826*
Roper, Elizabeth Hervey — Los Angeles — Ed. G.A. 188+192 — Alpha Phi-*1387*
A.B., Stanford, 1925
[12]Ropes, Richard Walter — Stanford Univ. — LD 70–21 — 56 Sequoia-*1163*
Rorden, Harold Louis — Petaluma — M.E. 13·167+247 — 54 Sequoia-*16*
A.B., Stanford, 1925
Rorke, Harold — Hollywood — Pol.S.-Jn.183+35 — PhiGam.D.-*1324*
A.B., Stanford, 1925
Rosasco, John Loring — Healdsburg — LD 52·34+16 — Pacific Grove-pg
Roscoe, John Philip — Upper Mattole — LD 43+63 — 44 Encina
[3]Rose, Alice Madeline — Newman — LD 18·14+23 — 353 Roble
[12]Rose, Embree Rector — Linton, Ind. — Chem. gr. — 19 Cowper Ct.-p
A.B., Indiana, 1919, A.M., 1922
Rose, Franklin Orth — Santa Monica — Math. gr. — Kingscote
A.B., Stanford, 1917
[1]Rose, Milton Franklin — Phoenix, Ariz. — LD 91–17 — 301 Toyon-*1106*
[12]Rose, Norrell Edmond — Stanford Univ. — Engl. ‡ 95–16 — 248 Branner-*X*
[5]Rosebrook, Genevieve C. — Palo Alto — Ed. G.A. gr. — 336 Emerson-p
A.B., Stanford, 1925
Rosenbaum, Charles W. — San Francisco — Hist. 150+5 — 214 Branner
[12]Rosneau, David Lee, Jr. — Stanford Univ. — Law gr. — 306 Union-*2053*
A.B., Yale, 1922; J.D., Stanford, 1925

Ross, Alexander Treloar	Honolulu, T.H.	LD 46–9	43 Encina-*1026*
[5]Ross, Arthur Alexander	Stanford Univ.	Econ. 9·128+9	245 Toyon
Ross, Chester Erwin	Gilroy	Law 139+80	252 Toyon-*I*
Ross, Dudley Tyng	Palo Alto	LD 59+48	211 Melville-p
[5]Ross, Gordon McKinnon	Stanford Univ.	Econ. sp. 7·146+34	250 Toyon-*978*
Ross, Howard Delos	San Jose	LD 44+59	1162 Sherman, SJ-sj
[234]Ross, John R.	Yerington, Nev.	Law gr.	SigmaAlphaEpsilon-*1351*
A.B., Nevada, 1923			
Ross, John William	Corte Madera	LD 56+16	Phi Kappa Sigma-*1306*
Ross, Maurice Bursk	San Diego	Educ. gr.	404 Encina-*1923*
B.S., California Institute of Technology, 1924			
Rossarini, Edith Y.	Truckee	Fr. 140+137	DeltaDeltaDelta-*1325*
[23]Rothrock, Frank Wallace	Spokane,Wn.	LD 46·30+4	Menlo Park-mp
Rothschild, Rene L.	Greeley, Colo.	Psych. 181+135	327 Union-*1010*
A.B., Stanford, 1925			
[3]Rounsefell, GeorgeA.	Palo Alto	Zool. 69·75+63	1750 Emerson-p
[4]Rountree, Walter Sage	Menlo Park	Law gr.	Menlo Park-mp
A.B., California, 1923			
Rouse, Gaylor	Riverside	LD 51–4	118 Toyon-*1612*
[4]Rowell, Milo Edwin	Palo Alto	Law gr.	571 Hamilton-p
A.B., Stanford, 1924			
[12]Rowland, DeWitt Clark	Stanford Univ.	Geol. gr.	333 Union-*911*
A.B., Stanford, 1924			
Rowland, Gilford Glenn	Stanford Univ.	Law gr.	309 Union-*911*
A.B., Stanford, 1923, J.D., 1925			
Rowland, Homer Harold	Santa Monica	LD 89+31	210 Branner-*950*
Rowland, Robert Russel	Santa Monica	LD 104+29	210 Branner
Rowland, Wilbur Hunt	Orland	LD 47+67	359 Encina
Rowles, Edward Behle	Idaho Falls, Ida.	LD 85+11	Delta Chi-*1304*
Rowles, Fillmore	Mountain View	LD 115+43	PhiSigmaKappa-*532*
Ruddy, Lorenz Weir	Los Angeles	Pre-Clin. 135·48+27	512 Lytton-p
A.B., Stanford, 1925			
[3]Rudolph, Bert Alexander	San Jose	Bot. gr.	16 S. 1st, SJ-sj
B.S., California, 1914, M.S., 1915			
[4]Rudolph, Louis C.	Pacific Grove	Phyl. gr.	189 Evans, PG-pg
[4]Rulon, Phillip Justin	San Jose	LD 15+21	360 N. 16th, SJ-sj
[4]Rumwell, Arnold	San Francisco	LD 55–11	Alpha Sigma Phi-*1357*
Runyan, James Nelson	Ellwood City, Pa.	Hist. 45·152+24	556 Encina-*1058*
A.B., Stanford, 1925			
Rupe, Luther Muir	Willits	LD 33–2	448 Encina
[4]Rupel, Paul Whitman	South Bend, Ind.	Sch. Ed. ‡	445 Lowell-*1098*
Ruppé, Donald Earl	Los Angeles	LD 46+22	401 Encina
Rush, Tom Richard	Bakersfield	LD 35+2	316 Encina-*1534*
[23]Russell, Anne Johanna	Tacoma, Wn.	LD 34+46	157 Roble-*1966*
Russell, Eugene Seward	Auburn	LD 49+42	112 Encina-*1933*
[3]Russell, Frank Marion	Berkeley	Pol. S. gr.	119 Alvarado, B-b
A.B., Stanford, 1912, A.M., 1913, Ph.D., 1925			
Russell, Jeanne	Palo Alto	Geol. gr.	351 Middlefield-p
A.B., Vassar, 1924			
[1]Russell, Leroy Burnett	Stockton	LD 39–29	707 Middlefield-p
[12]Russell, R. Alice	Palo Alto	LD 34–22	820 Cowper-p
Rust, Fred Earnest	Los Angeles	LD 42+17	25 Salvatierra-*1796*
[4]Rutledge, Ralph W.	Colusa	Law gr.	232 State, SM-sm
A.B., California, 1922			

[5]Rutter, Cloud D.	Stanford Univ.	Econ. 182+0	Delta Chi-*1304*
[23]Ryan, Allen Lewis	Berkeley	LD 21·31+22	41 Encina
[4]Ryan, Elizabeth Lunney	Sacramento	LD	Box 147, Menlo Park
[4]Ryan, Helen	Santa Barbara	Ed. G.A. gr.	Roble
A.B., Knox, 1912			
[4]Ryffel, Grace Hathor	St. Louis, Mo.	Educ. gr.	524 Webster-p
B.S., Columbia, 1923			
Sadler, Ruby Josephine	Palo Alto	LD 37·43+35	420 Homer-p
[3]Sagal, Leo Aaron	Los Angeles	LD 95·16+3	230 Encina
Saier, Milton Herman	Fresno	Med. gr.	2548 Fillmore, SF-sf
A.B., Stanford, 1924			
[1]Salisbury, Hervey M.	Walnut Grove	LD 2–14	428 Encina
[3]Salisian, Samuel E.	Pasadena	LD ‡ 14–8	438 Encina-*693*
Salsman, Byrl	Needles	LD 43+20	347 Encina-*1922*
Sanborn, Elwell Adolphus	Upper Lake	LD 8–21	415 Encina
[5]Sanders, Gerard G.	Wassenaar, Holland	Law gr.	Menlo Park-Box 688, p
A.B., Stanford, 1923			
[12]Sanders, John Forrest	Saratoga	LD 115+31	Saratoga-s
Sanders, William	Los Angeles	LD 45+47	218 Encina
Sandwick, Richard F.	Highland Park, Ill.	LD 77+37	Chi Psi-*N*
Sandys, Edward English	Los Angeles	Hist. 96·83+25	Delta Chi-*1304*
Sanguinetti, Melvin Stephen	Lodi	Econ. 180+270	59 Sequoia-*1159*
A.B., Stanford, 1925			
Sano, John Hiroshi	San Francisco	LD 60+18	Japanese Club-*598*
[1]Sano, Joseph Yuzuru	San Francisco	M.E. 134–13	Japanese Club-*598*
Sanson, Kenneth Dudley	So. Pasadena	Econ. 44·139+169	PhiSig.Kap.-*538*
A.B., Stanford, 1925			
[5]Sapero, James Joseph	Long Beach	LD 47+44	41 Encina-*2026*
Sapero, Kalmen Yokum	Denver, Colo.	Law gr.	207 Union-*2026*
A.B., Stanford, 1923			
Saroyan, Suren M.	Fresno	Law 90·44–4	438 Encina-*593*
Sauer, Fred Charles	Reedley	Econ.25·124+142	19 Alvarado-*512*
[1]Sauters, Robert Van E.	MartinsFerry,O.	LD 11–25	645 Lytton-p
Sawe, Elizabeth Brainerd	Santa Barbara	LD 16·28+28	327 Roble-*1267*
[5]Sawyer, Frank Orville	Los Angeles	LD 96+14	Theta Chi-*1383*
Sawyer, Theodore K.	Swarthmore, Pa.	Geol. gr.	511 Encina-*1262*
A.B., Stanford, 1924			
Saxon, Muriel D.	San Francisco	Hist. 129+32	GammaPhiBeta-*1337*
[23]Say, Luther Kenneth	Fresno	LD 21·27+11	137 Encina-*1218*
Sayles, Lesda Elizabeth	Newark	Ed. G.A. 90·45+45	211 Roble
Sayre, George Maywell	Ardmore, Okla.	LD 75+7	22 Sequoia-*L*
[4]Scales, Percival M.	San Francisco	LD	114 Toyon
[4]Scanlon, Leola Veronica	San Mateo	LD ‡	113 N. C St., SM-sm
Schacht, John Henry, Jr.	Sacramento	LD 74+58	Phi Delta Theta-*1334*
[4]Schaefer, Amos E.	Alva, Okla.	Hist. gr.	121 Toyon
A.B., Oklahoma, 1923			
Schall, Myron Reed	Monte Vista, Colo.	LD 90+19	159 Emerson-p
Schanck, Isabel Anna	Portland, Ore.	Engl.-Jn. 85·46+26	166 Roble-*863*
Schaufelberger, Margret	Mission Beach	LD 94+89	Chi Omega-*1386*
Scheidecker, Albert F.	Sebastopol	Law 144+85	108 Branner-*81*
Scherer, Herman Carlyn	Palo Alto	LD 83+15	Box 82, p
Schilling, Dorothy Cecelia	Palo Alto	Engl. gr.	705 University-p
A.B., Stanford, 1921, A.M., 1925			

[4]Schilpp, Paul Arthur A.M., Northwestern, 1922	Stockton	Phil. gr.	Los Altos
[5]Schink, Clifford Ernest	Dawson, Y.T.	Econ. 104+148	214 Toyon-*555*
[4]Schlein, Walter C.	Fresno	Educ. 103·28+26	137 Toyon
[4]Schleppergrell, Adolphine A.B., Montana, 1923	Melstone, Mont	Educ. gr.	Roble
Schmid, Harold William A.B., Stanford, 1925	Palo Alto	M.E. 216+20	235 Emerson-p
[12]Schmieder, Fremont R. A.B., Stanford, 1925	San Francisco	M.E. 202+74	216 Toyon-*1855*
[4]Schneider, Hilda Marie	Stockton	LD sp.	366 Roble
[4]Schoembs, Ruth	San Francisco	LD sp.	
Schoen, Arthur Castle	Hilo, Hawaii	Econ. 180+120	240 Toyon-*1243*
Schoenheit, Helen Mar	Cupertino	Hist. 90·46+25	359 Roble-*944*
[12]Schofield, Mary Lusia	Palo Alto	LD 86+137	751 Channing-p
Schomaker, Theodore Paul A.B., Stanford, 1925	San Francisco	Pre-Clin. 90·94+102	135 Branner
[4]Schortgen, Anna Laura	Eureka	Sch. Ed. ‡	315 Roble-*1116*
[134]Schubert, Raymond H. A.B., California, 1924	San Francisco	Law gr.	Theta Delta Chi-*T*
[12]Schultz, Alfred Fred	Tripoli, Iowa	Geol. 5·183–3	234 Union-*612*
Schultzberg, Frank Irwin A.B., Stanford, 1925	San Francisco	Engl. 180+79	Theta Chi-*1383*
[4]Schwartz, Anna Dale A.B., College of the Pacific, 1917	Honolulu, T.H.	Ed. G.A. gr.	219 Roble-*572*
Schwartz, Eva Dorris A.B., Stanford, 1925	San Mateo	Bact.109·100+112	741 C.R., SM-sm
Schwartz, Leonard Kelsey	San Francisco	LD 87+48	Zeta Psi-*B*
[234]Schwartz, William Leonard A.B., Ohio Wesleyan, 1910; A.M., Stanford, 1920	Mayfield	Fr. gr.	450 Harvard, CT-*572*
[23]Scofield, Eugene C.	Palo Alto	LD 85+72	Theta Xi-*1355*
Scofield, Philip Forest A.B., Stanford, 1924, Engineer, 1925	Palo Alto	E.E. gr.	430 Kingsley-p
Scott, Charles Craven	Twin Falls, Ida.	LD 97+111	Kappa Sigma-*1554*
[4]Scott, Esther Anna	Santa Clara	LD 70·16+15	1597 Harrison, SC-sc
Scott, Flora Murray B.Sc., St. Andrews, 1914; Ph.D., Stanford, 1925	Stanford Univ.	Bot. gr.	3 Lasuen-*859*
[4]Scott, James C. A.B., California, 1920	Berkeley	Educ. gr.	15 Salvatierra-*891*
Scott, Raymond Robert A.B., Stanford, 1922	Selma	Med. gr.	2286 Jackson, SF-sf
[5]Scribner, Thornton Seron	Monticello	Min. 135+49	226 Toyon
Scudder, Joseph Broadhurst	Trenton, N.J.	Law 144+89	Kappa Sigma-*1326*
[4]Seale, Barbara	Palo Alto	LD ‡	537 Coleridge-p
[4]Seale, Marion	Palo Alto	LD ‡	537 Coleridge-p
Sears, Maynard Joseph	Jamieson, Ore.	LD 79–1	15 Toyon-*1321*
[12]Seeger, Thomas Frederick	Palo Alto	M.E. 110–38	446 Hamilton-p
[4]Segel, David A.M., Columbia, 1922	Long Beach	Educ. gr.	619 Channing-p
[4]Segel, Naomi E. Claes	Long Beach	Educ. ‡	619 Channing-p
[4]Selden, Ruth Stevens	Minneapolis, Minn.	Sch.Ed.‡	1369 DeSoto, B'l'gme-b
[3]Selenger, Edmund Jackson	San Mateo	LD 51–22	12 Ellsworth, SM-sm
[4]Selfridge, Evelyn Gregory	Yonkers, N.Y.	Engl. ‡ 11+7	Roble
[5]Selig, Philip, Jr.	San Francisco	Law 135+186	Sig.Al.Eps.-*1192*

Sell, Marshall Ernest	Anaheim	LD 40·36–3	217 Encina-*568*
[34]Selle, Wilbur Arthur	Pacific Grove	Zool. ‡	605 Pine, PG-pg
Senior, Raymond T.	Salt Lake City, U.	Law 42·138+82	59 Sequoia-*1118*
A.B., Stanford, 1925			
[124]Sera, Morio	Waipahu, Oahu, T.H.	Econ. 101+38	248 Jackson, SJ-sj
[4]Settelmeyer, Irma M.	Gardnerville, Nev.	Sch. Ed. gr.	Roble
A.B., Mills, 1920			
Sewell, Herbert Allyn	Elko, Nev.	Econ. 137+56	211 Toyon-*982*
[4]Sexauer, Minnie Catherine	Belvidere, Ill.	Hist. gr.	182 Roble
A.B., Wisconsin, 1913			
[12]Shadomy, Elmus Vincent	Los Angeles	LD 41–34	Kappa Alpha
[4]Shales, John Melville	Murrayville, B.C.	Educ. gr.	786 Palo Alto-p
A.B., Queen's University, 1914			
Shallenberger, Gordon P.	Los Angeles	LD 47+25	327 Encina
[5]Shannon, George Pope	Redwood City	Engl. gr.	Redwood City-rc
A.B., Vanderbilt, 1917; A.M., Stanford, 1923			
[4]Shannon, Margaret Lee	Redwood City	Educ. gr.	Redwood City-rc
A.B., Tennessee, 1918			
[4]Shannon, Milam Jefferson	Parlier	LD ‡	111 Toyon
[5]Sharp, James Graham, Jr.	Palo Alto	M.E. 164+134	Zeta Psi-*B*
[12]Sharp, John Chester	Seattle, Wn.	Zool. 11·149+102	630 Bryant-*1383*
Shattuck, John George	Palo Alto	LD 56+28	175 University-p
Shattuck, Spenser Sidney	Bisbee, Ariz.	LD 93+85	Phi Sigma Kappa-*538*
Shaull, Ethel Mae	Los Angeles	Pre-Med. gr.	Manzanita-*676*
A.B., Stanford, 1924			
Shedd, Bertha Labaree	San Jose	Pre-Clin.10·174+287	116Roble-*681*
A.B., Stanford, 1925			
Shedd, Louise Dawes	Los Angeles	LD 63+104	264 Roble-*681*
[12]Sheets, Howard Alex	Los Angeles	LD 52–13	Delta Tau Delta-*1363*
Sheffield, Eugene S.	Garden City, N.Y.	LD 35–18	447 Encina-*1641*
[4]Sheldon, Katharine	Denver, Colo.	Engl. gr.	Roble-*1744*
A.B., Denver, 1913			
[13]Shelly, James Lawrence	Phoenix, Ariz.	Econ. gr.	Kappa Sigma-*1326*
A.B., Stanford, 1925			
Shen, Eugene	Shanghai, China	Psych. gr.	212 Union-*1168*
A.B., Stanford, 1923, A.M., 1925			
Shepard, Carolyn Blanche	Visalia	LD 45+36	305 Roble
[12]Shepard, O. Cutler	Palo Alto	Min. 45·153+131	771 Hamilton-p
A.B., Stanford, 1925			
[5]Shepard, S. Dorothy	Palo Alto	Hist. gr.	771 Hamilton-p
A.B., Stanford, 1924, A.M., 1925			
Shepherd, Frances Elizabeth	Yorba Linda	Hist. 90·91+83	162 Roble-*726*
A.B., Stanford, 1925			
Shepherd, Nellie Louise	Yorba Linda	LD 98+152	164 Roble-*726*
[4]Sheppard, Ralph Wyman	Boise, Ida.	LD ‡	Toyon
[4]Sherer, Leora A.	Palo Alto	Sch. Ed.‡	376 University-p
[12]Sherman, Ira Lawrence	Los Angeles	Law 8·173+166	133 Branner-*1139*
A.B., Stanford, 1925			
Sherman, Newton Merritt	Pasadena	LD 59·49+39	13 Encina-*857*
Shermund, Ralph Conrad	San Francisco	Bact. 138–5	Kappa Alpha
[23]Sherrard, Jack Caddy	Los Angeles	LD 24–9	344 Encina-*2006*
[34]Sherrill, Frederick Orlo	Riverdale	Econ. 142+0	122 Toyon
Sherrill, Gilbert Oren	Riverdale	Geol. 143+67	258 Toyon
[12]Sherwood, Frank Tunison	Palo Alto	LD sp. 52+7	Menlo Heights-*1646*
[5]Shih, Huang	Yunnan, China	Pol. S. 90·48+8	403 Kingsley-p

Shima, Togo	Berkeley	LD 102+81	301 Toyon-*1672*
[4]Shinn, Henry Arthur	Manhattan, Kans.	Law gr.	936 Waverley-p
A.B., Kansas, 1916			
Shinner, William Spruil	Glendale	LD 45–12	249 Encina-*2007*
Shipkey, Harry Hector	Fullerton	Econ. 170+59	Kappa Sigma-*1326*
Shipkey, Ted Edwin	Fullerton	LD 91+24	Kappa Sigma-*1326*
Shippy, Frank Alfred	Palo Alto	Hist. 24·104+68	910 Ramona-p
[4]Shirey, Raymond William	Long Beach	Educ. gr.	Toyon
A.B., Nebraska, 1914			
[5]Shlaudeman, Frank Henry	San Dimas	LD 72+8	Delta Kappa Epsilon-*O*
[4]Shoemaker, Frederick W.	Los Angeles	Educ. gr.	Toyon
Ed.B., California, Southern Branch, 1925			
[5]Shoenhair, Theodore Kinné	Los Angeles	LD 77–7	Del.KappaEpsilon-*OO*
[4]Shoesmith, Earl Byron	Chico	LD ‡	440 Cowper-p
[5]Sholes, Arlan Edward	Long Beach	Econ. 75–13	Toyon
Short, John Edward	Los Angeles	Med. gr.	440 Cowper-p
A.B., Southern California, 1924			
Shoup, Jack Wilson	Los Altos	LD 48+33	333 Encina
Shumaker, Phil William	Los Angeles	Pre-Med.157+148	Sig.Al.Eps.-*1305*
[5]Sias, Azariah Boody	San Francisco	Educ. gr.	Sig.AlphaEpsilon-*1165*
Ph.B., Rochester, 1903, A.M., 1922			
[5]Sibbett, Ewing	Berkeley	Law 92+106	Zeta Psi-*B*
[4]Sibley, Katharine	Syracuse, N.Y.	LD ‡	Carmel-c
Sickler, J. Hackett	Pasadena	Engl.-Jn. 105·42+12	Zeta Psi-*B*
[2]Sidway, Charles Lee	Ocean Park	E.E. gr.	326 Union-*1067*
A.B., Stanford, 1924			
[3]Siegfried, Bertha Nanelia	Palo Alto	LD 16+18	527 Waverley-p
[12]Siemon, James Elerick	Hinkley	LD 72–1	Cardinal Hotel-p
[5]Siemons, John	Grand Rapids, Mich	LD sp. 80+0	135 Toyon-*1855*
[5]Sievers, John Paul	La Habra	Law 174+55	220 Toyon-*1855*
Sievers, Ruth Esther	Everett, Wn.	LD 90+140	Sigma Kappa-*1327*
[12]Sill, Joseph, Jr.	Pasadena	LD 40·42+33	417 Encina-*647*
Silver, Charles Richard	Irvington	Pol. S. 140+108	304 Union-*625*
Silverman, Henry Edward	Los Angeles	LD 41+2	407 Encina-*1516*
Silvius, Herbert	Sacramento	Law 138+75	248 Toyon-*1178*
[12]Simmons, Burt Orin	Los Angeles	LD ‡ 30–15	525 Channing-*1384*
Simmons, Elisabeth Crocker	Sacramento	Fr. 180+116	Kap.Kap.Gam.-*1354*
A.B., Stanford, 1925			
Simmons, Samuel Leighton	Mayfield	LD 41+9	Amherst St., Mayfield
Simon, Benjamin	Washington, D.C.	Chem. 108·72+12	22 Sequoia-*1434*
A.B., Stanford, 1925			
Simon, Milton	Dallas, Tex.	LD 45+23	119 Encina-*1864*
Simons, Charles Cochran	Hollywood	LD 76+51	Beta Theta Pi-*1074*
[5]Simrell, Vivian Earle	Babylon, N.Y.	Engl. gr.	1004 Emerson-p
A.B., Cornell, 1924			
Sims, Francis LeRoy, Jr.	Stockton	Econ. 36·144+99	201 Branner-*737*
A.B., Stanford, 1925			
[23]Sims, Robert Floyd	Long Beach	LD 26+9	225 Encina
[234]Singer, Louis	New York, N.Y.	LD 86+7	649 Lytton-p
Skilling, Hugh Hildreth	San Diego	M.E. 90·49+64	49 Sequoia-*1723*
Slaff, Samuel	Passaic, N.J.	Hist.135·45+41	11 Salvatierra-*1844*
A.B., Stanford, 1925			
[4]Slater, Kenneth Norton	Mountain View	Educ.73·80+83	MountainView-mv

[4]Sleeper, Henry Albert	Sacramento	Econ. ‡	258 Toyon
[2]Sleeth, Gail	Norman, Okla.	Engl. gr.	Madroño
A.B., Oklahoma, 1921; A.M., Stanford, 1923			
[12]Sloan, LeRoy	Los Angeles	C.E. 155+24	301 Branner
[1]Slosson, Albert Edward	Palo Alto	LD 80–26	241 Fulton-p
[23]Smissaert, Gilbert Flagler	San Francisco	LD 23–1	139 Encina
Smith, Albert Edward	Sacramento	Econ. 26·170+61	Zeta Psi-*B*
A.B., Stanford, 1925			
[12]Smith, Alice London	Los Angeles	Econ. 92·93+118	Chi Omega-*1386*
A.B., Stanford, 1925			
[5]Smith, Archie Alexander	Palo Alto	Law gr.	33 Encina Ave.-p
A.B., Stanford, 1924			
[4]Smith, Beryl K.	Hayward	LD sp.	Phi Sigma Kappa
Smith, Cecil Jules	Los Angeles	Pre-Clin. 190–12	244 Toyon-*992*
[12]Smith, Clair Curtis	Vancouver, B.C.	Law 116+17	Phi Sigma Kap.-*538*
Smith, Clyde James, Jr.	Los Angeles	LD 48+44	432 Encina-*1231*
Smith, Dan Throop	Stanford Univ.	LD 50+85	332 Encina-*1195*
[2]Smith, Dana K.	Urbanna, Va.	LD	Cardinal Hotel-p
Smith, Dixon Hinshaw	Sacramento	LD 45+0	426 Encina-*827*
[4]Smith, Dorothea Katherine	Santa Ana	Engl. gr.	Roble
A.B., Pomona, 1924			
[4]Smith, Dorothea Wolters	Menlo Park	LD	Menlo Park-mp
[4]Smith, Dorothy Harrel	Marshall, Mo.	Engl. gr.	Kingscote
A.B., Iowa, 1922			
[4]Smith, Earl Duane	Watsonville	Educ. gr.	720 Cowper-p
Ph.B., Wisconsin, 1920			
[1]Smith, Earle Frederick	Palo Alto	Econ. 126·61+12	1001 Forest Ct.-p
A.B., Stanford, 1925			
Smith, Edgar Tevis	Los Angeles	Law 183+81	PhiKappaSigma-*1306*
A.B., Stanford, 1925			
Smith, Edward Anderson	Palo Alto	LD 96+63	330 P.A. Ave.-p
[4]Smith, Edwin Oscar	Modesto	Cl. Lit. gr.	255 Toyon
A.B., McKendree, 1908, A.M., 1909			
[12]Smith, Everett Russell	Los Angeles	LD 38–30	Chi Psi-*N*
Smith, Francis Albert	Palo Alto	Chem. gr.	600 Lincoln-p
A.B., Stanford, 1922, A.M., 1923			
[4]Smith, Frank Barton	Biggs	Educ. gr.	134 Toyon
B.S., Missouri, 1912			
[1]Smith, Frederick E.	Crosbyton, Tex.	Econ. ‡ 11–14	475 Forest-p
Smith, Frederick Young	Los Altos	LD 80+23	Delta Upsilon-*1353*
Smith, Freid Lynn	Marysville	LD 46+0	321 Encina-*1493*
Smith, George Keil	Vallejo	Law 180+65	218 Toyon-*1855*
A.B., Stanford, 1925			
Smith, Herbert Arthur	Oakland	LD	210 Encina
[5]Smith, Herbert F.	Hermosa Beach	Pol. S. 56·50+13	316 Union-*1667*
Smith, Howard Carlisle	Palo Alto	M.E. 183+111	1335-Cowper-p
Smith, Irving Levere	Santa Cruz	LD 81+25	242 Toyon-*83*
Smith, James Parley	Prescott, Ariz.	Law gr.	207 Union
A.B., Stanford, 1923, J.D., 1925			
[3]Smith, James Roy	Long Beach	LD 13–1	
Smith, John Lyman	Oakley, Idaho	Hist. gr.	451 Channing
A.B., Utah, 1919			
Smith, Joseph Odell	Los Angeles	LD 50+31	200 Encina
[4]Smith, Karl Gladdon	Mayfield	LD ‡	Box 43, M-m

[4]Smith, Lucile W.	Palo Alto	LD	1106 Bryant-p
Smith, Lucius Dent	New York, N.Y.	Econ. 80·100+65	200 Branner-*1335*
A.B., Stanford, 1925			
[4]Smith, M. Lyle	La Jolla	LD ‡	163 Roble
Smith, Pearl Mabry	San Francisco	Med. gr.	2418 Washington, SF-sf
A.B., Wisconsin, 1916			
Smith, Ross William	Berkeley	LD 32–6	352 Encina-*1936*
[1]Smith, Roy Murray	Berkeley	LD 9–10	109 Encina
Smith, Ruth Althea	Ithaca, N.Y.	LD 87+30	KappaAlphaTheta-*1336*
[5]Smith, Seymour P. E.	Pacific Grove	Zool. 109+98	64 Sequoia-*811*
Smith, Stacy H., Jr.	Pasadena	LD 85+98	13 Toyon-*2031*
Smith, Wayne Mingus	Big Creek	LD 109+12	Zeta Psi-*B*
[4]Smith, Weir G.	Stratford	Sch. Ed. ‡	241 Toyon
[5]Smith, William Corell	Acampo	Chem. 90·46+35	159 Emerson-p
[12]Smythe, Marcus Loomis	Cleveland, O.	LD 9·49–19	DeltaKap.Epsilon-*O*
[3]Sneider, Lucille Grace	San Mateo	LD 73·15+5	343 Roble
[1]Snell, J. Hall	Browns Valley	Law 180+16	8 Union
A.B., Stanford, 1925			
[3]Snidow, Houston Alfred	La Verne	LD 14+0	329 Encina
Snitjer, William Chandler	San Jose	LD 13·87+44	Sigma Nu
Snook, Edward Andrew	Hood	LD 87+51	Sigma Chi-*628*
Snow, Byron Reginald	Palo Alto	Educ. 83·56+10	1159 Fulton-p
Snow, Jack Wynford	Santa Ana	LD 87+54	120 Toyon-*1764*
Snow, William Boring	New York, N.Y.	E.E. gr.	114 Encina-*1486*
A.B., Stanford, 1923, Engineer, 1925			
Snyde, Fred Wright	Lodi	LD 44+21	203 Encina-707
[4]Snyder, Elma Louise	Van Nuys	Cl. Lit. gr.	Madroño
A.B., Lawrence, 1908			
[1]Snyder, Evelyn Hamilton	Stanford Univ.	LD 55+16	8 Alvarado-*106*
[4]Snyder, Lucille Holbrook	San Jose	Sch. Ed. 112·54+54	107 Roble
[4]Snyder, Robert Jerome	Palo Alto	Econ. ‡	635 Lowell-p
[3]Snyder, William Gilman	Jackson	LD 50–11	56 Sequoia-*557*
Sobieski, John Gilhousen	Los Angeles	LD 46+58	207 Encina-*1891*
[12]Sohler, Frank Ernest, Jr.	Healdsburg	LD 17–23	126 Encina-*1402*
Sohlinger, Alice Rebecca	Los Angeles	LD 44+14	206 Roble
Sollars, Maxine Elizabeth	Woodbridge	Pol.S.23·107+82	AlphaOmicronPi
Solomon, Fred Frank	Venice	Econ. 137+1	Zeta Psi-*B*
[234]Somavia, J. Ramon	Salinas	LD 75+53	217 Toyon-*951*
Somers, Melvin Ralph	Los Angeles	Med. gr.	2436 Clay, SF-sf
A.B., Stanford, 1923			
Somerville, Marshall F.	Twin Falls, Ida.	LD 42+19	124 Encina-*1588*
Sommer, Herbert Lemle	San Francisco	Law 135+113	139 Branner
Somner, Frank George	Bishop	LD 91+9	33 Sequoia
Sonniksen, Helen Irene	San Jose	Phil. 100·46+*22*	107 Roble
Sooy, Neal Edgar	Glendale	LD 34+0	19 Encina-*955*
[1]Soper, Harold C.	Palo Alto	Law gr.	Phi Kappa Psi
A.B., Stanford, 1923			
[12]Southworth, Harry Fox	Prescott, Ariz.	LD 68–8	Kappa Sigma-*1326*
[5]Souza, Manuel E.	Mayfield	Geol.98·84+50	1115PA.M-Bx515,p
[12]Spangler, Raymond L.	So. San Francisco	Econ.-Jn. 158+112	324 Union-*936*
Spaulding, Jean Benedict	San Bernardino	LD 46+29	362 Roble-*683*
Speer, John Stockton	Pasadena	LD 30–15	352 Encina-*1481*

Speers, Frederick Warden	Denver, Colo.	LD 44+26	426 Encina-*1614*
[5]Spellacy, Edmund Frank	Los Angeles	LD 81+37	Theta Xi-*1355*
[34]Spencer, Emerson Lane	Modesto	LD 24+10	Delta Tau Delta
[5]Spencer, Percival Innes V.	Los Angeles	Law gr.	Branner-*881*
A.B., Stanford, 1925			
[4]Spencer, Robert R.	Honolulu, T. H.	Educ. gr.	204 Toyon
A.B., Hawaii, 1923			
[12]Spilman, Ruth Lee	Palo Alto	LD 79+81	471 Addison-p
Spradling, LeRay, Jr.	Palo Alto	LD 88+79	1831 Waverley-p
Spradling, Wallace Hanes	Palo Alto	LD 43+8	1831 Waverley-p
[4]Sprague, Edith Marguerite	Turlock	Psych. gr.	166 Roble
A.B., Brown, 1916			
[5]Spring, Carl William	Cupertino	M.E. 176+49	Cupertino-c
Spring, Willard Carlton	Hollywood	LD 22–10	204 Toyon-*1474*
Springer, John Young	Palo Alto	LD 87+144	129 Emerson-p
Springer, Norman Arthur	Upland	LD 70–19	Delta Chi-*1304*
Sproul, Theodore Woods	Palo Alto	LD 66+8	Zeta Psi-*B*
[4]Squires, Ida Belle	San Diego	Psych. ‡	356 Roble-1114
Squires, John Hamilton	San Diego	C.E. 90·42+6	1160 Bryant-p
[5]Staffelbach, Elmer H.	Mayfield	Educ. gr.	411 Amherst, M-*1273*
A.B., Stanford, 1924, A.M., 1925			
Stafford, Una	Twin Falls, Idaho	LD 92+90	Sigma Kappa-*1327*
Stahler, Robert Francis	Yorba Linda	LD 38+0	400 Encina-*1651*
[5]Stall, Elizabeth Edna Dixie	Palo Alto	LD 42+2	320 Embarcadero-*1255*
[4]Standley, Helene Nichols	Palo Alto	Sch. Ed. gr.	250 Byron-p
A.B., Wellesley, 1909			
Stanford, Helen Winslow	Piedmont	LD 37+21	280 Roble-*1885*
[124]Stanford, Leland Ghent	San Bruno	Law gr.	San Bruno-*20*
A.B., Stanford, 1924			
[5]Stanley, Ashton Alberger	Del Monte	LD 28–6	DeltaKappaEpsilon-*1223*
[5]Stanley, Florence Ellen	Palo Alto	Ent. 129+31	269 Hawthorne-p
§[12]Stanley, Raymond Solon	Cleveland, O.	Chem. 124+64	39 Sequoia-*572*
[23]Stanton, Frank C.	San Francisco	Econ. 80–27	445 Encina
Starks, Dorothy Johanna	Palo Alto	Med. gr.	2332 Steiner, SF-sf
A.B., Stanford, 1924			
Starling, Kenyon Law	Fargo, N. D.	LD 53·43+14	233 Encina-*1269*
Starr, Walter Augustus, Jr.	Piedmont	Law gr.	DeltaKappaEpsilon-*O*
A.B., Stanford, 1925			
Staub, John Garfield, Jr.	Los Angeles	LD 45+20	348 Encina-*1254*
Stebbins, Margaret	Oakland	LD 88+49	148 Roble-*1976*
[4]Stecker, Alle D.	San Luis Obispo	Cl. Lit. gr.	Roble
A.B., California, 1918			
Stedman, James Hunt	Palo Alto	LD 44·62+0	1818 Bryant-p
[5]Stedman, Morgan	Palo Alto	LD 71–5	1320 Byron-p
Steele, Gurdon Donald	Lodi	Pol. S. 138–19	35 Sequoia-*983*
Steele, Marion Ellis	Gilroy	Psych. 135·49+10	712 Waverley-p
A.B., Stanford, 1925			
[4]Steele, Marion Lydia	Amherst, Ohio	Sch. Ed. gr.	208 Roble
A.B., Oberlin, 1909			
[4]Steidley, Hubert A.	Somerton, Ariz.	Educ. gr.	65 So. 6th, SJ-sj
A.B., Colorado State Teachers College, 1923			
Steil, Melville P.	Nenana, Alaska	Chem. 96+86	Sigma Alpha Epsilon
[4]von Stein, Kathryn Violet	Ontario	LD ‡	328 Roble

§ Deceased July 28, 1925

[23]Steinbeck, John Ernest	Salinas	Engl.-Jn. 93+38	548 Webster-p
Steinbeck, Mary Blanch	Salinas	Engl. 134+66	548 Webster-p
[24]Steinberg, Amy Jane A.B., Washington, 1923	Monmouth, Ore.	Educ. gr.	Roble-*1603*
[4]Steinhart, Claire Hortense	Santa Clara	LD 86·39+28	230 Roble
Steinweden, John Benjamin	Lindsay	LD 93+102	125 Branner-*1249*
Stephens, Bruce Miller	Alameda	LD 93+86	Pacific Grove-pg
Stephens, John Stewart A.B., Stanford, 1925	Los Angeles	Pre-Clin. 184+88	PhiKap.Psi-*1333*
Stephens, Moye Wicks, Jr.	Los Angeles	LD 44+31	303 Encina-*1461*
[124]Stephens, Philip Harvey	Los Angeles	Econ. 139+9	Phi Kappa Psi-*1333*
[5]Sterling, Theodore K. A.B., Stanford, 1924	Stanford Univ.	Law gr.	SigmaAlphaEpsilon-*1305*
Stevens, Alexander C., Jr. A.B., College of the Pacific, 1923	San Francisco	Zool. gr.	Kappa Sigma
[4]Stevens, Blaine L. A.B., Stanford, 1919	Palo Alto	Ent. gr.	926 Cowper-p
[3]Stevens, Kimball Clement	San Mateo	LD 58·16+1	235 Encina
Stevenson, Archie M.	Portland, Ore.	Pol. S. 133–15	200 Branner
Stevenson, Arthur Barker	San Francisco	LD 37–31	Sig.AlphaEpsilon-*1071*
Stevenson, Carl Bering	Cupertino	LD 92+101	Cupertino-c
Stevenson, Eugene Maxwell	Centerville	Law 138+25	Sig. AlphaEps.-*1305*
Stevenson, Harry Wyle	Centerville	LD 71–10	Sig.AlphaEps.-*1305*
Stevenson, Henry Coffin	San Francisco	LD 43–22	Sig.AlphaEps.-*1305*
[15]Steward, Harry, Jr.	Los Angeles	LD 111-11	Phi Kappa Psi-*1333*
Stewart, Arbie	Stanford Univ.	LD 60·45+85	Alpha Phi-*103*
Stewart, Arthur C.	Pasadena	LD 93+85	Beta Theta Pi-*1335*
[2]Stewart, Boyd Walter	Nicasio	LD 21–14	24 Branner-*502*
[12]Stewart, Donald Kenneth A.B., Stanford, 1925	Palo Alto	M.E. 229+71	311 Fulton-p
Stewart, Edward Nicholson	La Jolla	LD 23–24	305 Encina-*1751*
Stewart, Gerald Glenn	Los Angeles	LD 77+0	Delta Tau Delta-*1369*
[5]Stewart, Helen Virginia	Riverside	Cl. Lit. 90·42+61	100 Roble-*979*
Stewart, Holmes Richter A.B., Stanford, 1925	Clovis	Econ. 181+121	AlphaSig.Phi-*1357*
[12]Stewart, James Douglas A.B., Stanford, 1925	Pasadena	Econ. 102·81+61	Del.Upsilon-*1353*
[23]Stewart, Jean Christyn	Rio Vista	LD 32+58	317 Roble-*1607*
[14]Stewart, Nadene Parker	Santa Clara	Educ.103·18+17	1217Har'sn,SC-sc
Stewart, William Blair A.B., Reed, 1921	Palo Alto	Econ. gr.	1340 Byron-p
Stichter, Genevieve Susan A.B., Stanford, 1925	Cupertino	Sch. Ed. gr.	Cupertino-c
Stillman, Freeman L.	Odebolt, Iowa	Pre-Med.16·126+10	33Sequoia-*605*
[3]Stipp, Thomas Franklin A.B., Stanford, 1922	San Mateo	Geol. gr.	24 Middle Ave., SM-sm
[4]Stirwalt, Ernest A.B., Michigan, 1911	Palo Alto	Educ. gr.	159 Kellogg-p
[4]Stirwalt, Nora Bourn A.B., Indiana, 1910; A.M., Wisconsin, 1914	Palo Alto	Sch. Ed. gr.	159 Kellogg-p
Stockbridge, Glenn Henry	Los Angeles	C.E. 159+171	236 Toyon-*605*
[1]Stockton, Andrew B. A.B., Stanford, 1923	Grangeville, Ida.	Med. gr.	2401 Sacramento, SF-sf
[6]Stoddard, Elizabeth S. A.B., Wisconsin, 1908	Beaver Dam, Wis.	Engl. gr.	181 Roble

[4]Stoker, Ray Cooke A.B., Texas, 1922, A.M., 1923	Denton, Tex.	Engl. gr.	Madroño
[4]Stoker, Spencer Longshore A.B., Texas, 1922, A.M., 1923	Denton, Tex.	Pol. S. gr.	Madroño
[4]Stolle, Helen A.B., Stanford, 1908	San Francisco	Engl. gr.	Sigma Kappa
Stoller, Frank Drennon	Oakland	LD 39–1	224 Encina-*1573*
Stollery, David John, Jr.	San Mateo	LD 60+31	920 Palm, SM-sm
Stollmack, Arthur T. A.B., Stanford, 1924	Hollywood	Law gr.	203 Union-*1169*
[4]Stone, Clarence Robert	Palo Alto	Educ. gr.	115 Guinda-p
Stone, John Bear A.B., Stanford, 1924, Engineer, 1925	San Francisco	Chem. gr.	237 Coleridge-p
[4]Stone, William S. A.B., Illinois, 1919	Phoenix, Ariz.	Educ. gr.	137 Toyon
[12]Stoner, Robert Meily	Mayfield	LD 111+11	170 E. Stanford, M-m
Storey, Alfred Dean	Merced Falls	Engl. 138+48	Sigma Nu-*1385*
[3]Storey, Parnie Hamilton	Palo Alto	LD 22·15+13	379 Roble-*1606*
Storie, William Galbraith	San Jose	Econ. 60·90+7	200 Portola-p
[14]Storm, Eugene Max	Alhambra	LD 67·65+24	201 Union
[4]Story, Carl Leverne B.S., Oregon Agricultural, 1916	San Mateo	Sch. Ed. gr.	San Mateo, sm
Strain, Harold Henry A.B., Stanford, 1923, A.M., 1924	Mayfield	Chem. gr.	Mayfield-m
Stratton, Charles Cullen	Downey	Law 125+56	Al.TauOmega-*1384*
Stratton, Charles William	Palo Alto	LD 60·57+33	1505 Emerson-p
Street, Webster Finley	Palo Alto	Law 134+78	590 Embarcadero-p
[124]Strobeck, Edgar William	Palo Alto	LD ‡ 19–8	361 Addison-p
Strong, Artemas Jacob A.B., Stanford, 1924	Santa Paula	Med. gr.	2321 Sacramento, SF-sf
Strong, David Fales B.S., Dartmouth, 1920	Winsted, Conn.	Engl. gr.	550 Kingsley
[12]Strong, Edward William A.B., Stanford, 1925	Gresham, Ore.	Phil. 187+221	UniversityPark-*542*
Strong, Kenneth C.	Long Beach	LD 83+89	Pacific Grove-pg
[34]Stroup, Cranston LeRoy	Cleveland, O.	Engl. 140+32	1651 Webster-p
[4]Stroup, Margretta E.	Cleveland, O.	LD 49+42	1651 Webster-p
Stroup, Russell C. A.B., Stanford, 1925	Cleveland, O.	Law 196+71	226 Union
Strouse, Carolan Mathilde A.B., Stanford, 1925	Altadena	Hist. gr.	110 Roble-*941*
[5]Stroven, Carl	Santa Rosa	LD 82·46+37	645 Gilman-p
[4]Stroven, Helen Truitt	Healdsburg	LD ‡	645 Gilman-p
Strowger, Allan Wade	Portland, Ore.	LD 46+39	403 Encina-*1794*
Struble, George Ralph	Penryn	LD 82+23	11 Sequoia
Struble, Homer Pearson A.B., Stanford, 1922	Penryn	Med. gr.	S.F. Hospital, SF-sf
Stubblefield, Theodore Alex.	Fullerton	Engl. 90·47+23	1047 Ramona-p
Stucky, M. Ruth A.B., Stanford, 1925	Sparks, Nev.	Span. 187+259	312 Roble-*1057*
[4]Sudden, Cecelia Frances	San Mateo	LD ‡	Roble-*1100*
Suffern, William Henry	Decatur, Ill.	Econ. 133+42	Delta Chi-*1304*
[1]Sugars, Nell Muriel A.B., Stanford, 1915	Palo Alto	Soc. S. gr.	1027 Bryant-p
Sullivan, Cletus Stephen A.B., Stanford, 1922	Santa Clara	Med. gr.	2321 Sacramento, SF-sf

Sullivan, Lloyd Lawrence	Los Angeles	LD 7-90+75	120 Toyon-*1052*
[1]Sumner, Charles Hawley	Palo Alto	Law 91+29	214 Union-*567*
[12]Sumner, William Artell	San Jose	Pre-Clin.88-67+23	518S.11th, SJ-sj
Sutro, John Alfred	San Francisco	Econ. 135+58	203 Toyon-*1401*
[4]Sutton, Arthur Taylor	Waitsburg, Wn.	Educ. gr.	Palo Alto-p
A.B., Baker, 1908			
Sutton, Reuel Robbins	San Francisco	LD 80+30	Menlo Park-*B*
Sutton, Thomas Leonard	San Francisco	Med. gr.	1966 California, SF-sf
[1]Suydam, Clinton Hamilton	Palo Alto	E.E. gr.	918 Forest-p
A.B., Stanford, 1918, Engineer, 1925			
Swain, Robert C.	Stanford University	LD 42+24	2 Mirada-*1153*
[1]Swain, Stanley Olivier	Sebastopol	LD 7–12	424 Encina-*2028*
Swan, Frederick Haviside	Palo Alto	LD 71+2	529 Addison-p
[23]Swayne, William W.	New York, N.Y.	Chem. 182+0	Phi Kappa Psi-*1333*
Swayze, Doris Christine	Hermiston, Ore.	Hist. 137+73	168 Roble-*952*
[4]Swearingen, Hazel M.	Palo Alto	Educ. gr.	761 Hamilton-p
A.B., Montana, 1917			
[1]Sweigert, Charles Francis	San Francisco	Pre-Clin.90-75+68	105Branner-*545*
[4]Swenson, Ingwald A.	Minneapolis, Minn.	Sch. Ed. gr.	Toyon
A.B., St. Olaf, 1923			
Swickard, Andrew Emerson	Palo Alto	LD 48+60	451 Encina
Swickard, Harvey Arnold	Palo Alto	LD 46-45+*22*	126 Encina
Swift, Howard Newman	Tokyo, Japan	M.E. 40-128+7	127 Branner-*1204*
[14]Swift, Jesse Derbert	Arlington	LD 44+12	218 Toyon-*1304*
Swim, Hubert Dudley	Twin Falls, Ida.	PolS89-50+67	432Hawthorne-*1851*
Swing, Horace Everett	San Bernardino	Law 180+38	Delta Tau Delta
A.B., Stanford, 1925			
[4]Swinnerton, Meltha	San Luis Obispo	LD ‡ 9+2	
[5]Sylva, Edward Nuku	Honolulu, T.H.	Econ. 54-124+11	238 Toyon
Sypher, Clarence	Seattle, Wn.	LD 46+39	432 Encina-*1*
[5]Taam, Wu	Canton, China	Law gr.	Chinese Club-*1257*
A.B., Stanford, 1925			
Tackabury, George Wesley	Los Angeles	Law 4-138+63	Delta Upsilon-*1353*
[2]Taft, Chester Archibald	Nogales, Ariz.	Pol. S. 122-63+33	204 Union
A.B., Stanford, 1925			
[23]Taft, Stanley Byron	Salinas	LD 109+*32*	24 Sequoia-*1199*
[4]Taggart,MarionEwing	Warrensburg,Mo.	Sch. Ed. gr.	Phi Sigma Kappa
B.S., Central Missouri State Teachers College, 1924			
T'an, Shulin Lincoln	China	Pol. S. gr.	Chinese Club-*1079*
A.B., Peking Government Teachers College, 1922; A.M., Stanford, 1924			
Tanner, Vasco Myron	St. George, U.	Ent. gr.	465 Hamilton-p
A.B., Brigham Young, 1915; A.M., Utah, 1920; Ph.D., Stanford, 1925			
[4]Tantau, Hart Hertel	San Francisco	LD	226 Toyon
[12]Taormina, Anthony	Mountain View	LD 43–30	Mountain View-mv
[4]Tapley, Christine E.	Culver City	Engl. ‡	Roble
[5]Taylor, Albert Ray	Palo Alto	LD 67+34	855 Hamilton-p
[134]Taylor, Beatrice Broughton	Menlo Park	Educ. gr.	Laurel Court, MP-mp
A.B., Stanford, 1925			
Taylor, Byron Madison	Gage, Okla.	M.E. 113–3	512 Encina-*1802*
[12]Taylor, Della LaRue	Los Angeles	Engl.-Jn. 23-157+95	D.D.D.-*1325*
A.B., Stanford, 1925			
[1]Taylor, Ethel	Corvallis, Ore.	Fr. gr.	Kingscote-*1213*
A.B., Michigan, 1906; A.M., Stanford, 1925			
Taylor, Everett Ridley	Hollywood	C.E. 136+26	11 Toyon-*1855*

[4]Taylor, Hazel Davies A.B., Pacific University, 1915	Palo Alto	Sch. Ed. gr.	835 Webster-p
[124]Taylor, Howard Rice A.B., Pacific, 1914; A.M., Stanford, 1923	Palo Alto	Educ. gr.	835 Webster-p
[12]Taylor, James B.	Los Angeles	LD 133+132	213 Toyon-*1855*
Taylor, Kenneth M. A.B., Oberlin, 1923	Stanford University	Med. gr.	19 Salvatierra-*927*
[4]Taylor, Merl Cobb A.B., New Mexico, 1923	Albuquerque, N.M.	Educ. gr.	611 Waverley-p
Taylor, Morris Peck A.B., Stanford, 1923	Stanford University	M.E. gr.	Kingscote
Taylor, Richard Wesley	Santa Ana	Pol. S.-Jn.90-55+63	120Toyon-*815*
[4]Taylor, Wallace Matthews A.B., College of Idaho, 1915	Campbell	Educ. gr.	Campbell-c
[5]Taylor, William Haydn A.B., Stanford, 1923	Los Angeles	Law gr.	Laurel Court, MP-mp
[4]Taylor, Zenas Howland A.B., Macalester, 1920	Los Angeles	Educ. gr.	Union
[12]Teague, Milton McKevett A.B., Stanford, 1925	Santa Paula	Ent. 182+143	Sig.AlphaEps.-*1305*
[4]Telfer, Warren J. A.B., College of the Pacific, 1922	Quincy	Hist. gr.	Sigma Alpha Epsilon
[1]Templeton, Knight C.	Stanford Univ.	LD 21–20	451 Encina-*1*
[5]Templin, Ernest Hall A.B., Stanford, 1921, A.M., 1921	Stanford Univ.	Span. gr.	248 Toyon
[4]Templin, Ethel May A.B., California, 1924	AmericanFalls,Ida.	Span. gr.	360 Roble
Temps, Fred Ernest	Hayward	LD 47+60	44 Encina
[5]Teng, Chun-Kao A.B., Stanford, 1925	Lanchow, China	Phil. gr.	Chinese Club-*1765*
[4]Tenney, Arthur Bootelle A.B., Fairmount, 1912	Graton	Educ. gr.	Menlo Park-mp
[4]Tenney, Cecilia Edith A.B., Reed, 1919	Portland, Ore.	Fr. gr.	105 Roble
[5]Terakawa, Tansai Kiyoshi A.B., College of the Pacific, 1924	Japan	Phil. gr.	Los Altos-*554*
[4]Thaxton, Ruth A.B., Colorado State Teachers College, 1923	Mason, Texas	Educ. gr.	Roble
Thayer, G. Edwin	San Mateo	LD 46+16	431 Encina
Thayer, William Lyman A.B., Stanford, 1925	Los Angeles	E.E. gr.	121 Toyon-*964*
[234]Thienes, Clinton Hobart A.B., Oregon, 1918, A.M., 1923, M.D., 1923	San Francisco	Phar. gr.	2608 California, SF-sf
Thomas, Aimee Belle	Palo Alto	LD 64+10	Delta Gamma-*1366*
[5]Thomas, Arthur Blake	Salt Lake City,U.	Law 14-156+28	PhiKap.Sig.-*1306*
[4]Thomas, Edith Helen A.B., Kansas, 1917	Porterville	Sch. Ed. gr.	855 Waverley-p
[5]Thomas, Edson Gay A.B., Stanford, 1925	Palo Alto	Law gr.	656 Bryant-p
[4]Thomas, Frank Waters A.B., Indiana, 1905; A.M., Illinois, 1910	Fresno	Educ. gr.	552 Tennyson-p
Thomas, Gomer M., Jr.	Los Angeles	LD 45+39	223 Encina-*1259*
Thomas, Lewis Adams, III	Visalia	LD 93+56	Theta Chi-*1383*
Thomas, Mark Everett	Los Gatos	C.E. 46-104+103	237 Branner-*1946*
[5]Thomas, Roscoe	Pasadena	LD 79+88	Beta Theta Pi-*1795*
[4]Thomas, Ruth Margaret A.B., Carnegie Institute of Technology, 1924	Pittsburgh,Pa.	Ed. G.A. gr.	109 Roble

Thomas, S. Benson	Mill Valley	LD 102+93	28 Sequoia
Thompson, Benjamin H.	Glendale, Ariz.	LD 41+15	601 Melville
Thompson, Chauncey O.	Memphis, Tex.	LD 48+44	408 Encina-*1431*
[4]Thompson, Dena Elizabeth	Evanston,Ill.	Sch. Ed. ‡	425 Embarcadero-p
Thompson, Ethelind Grace	San Diego	LD 15·83+107	Chi Omega-*1386*
Thompson, Florence Gail	Alberta, Can.	Psych.18·102+122	PiBetaPhi-*1332*
Thompson, Florence M.	San Francisco	LD 45+22	334 Roble-*1083*
[12]Thompson, Frank E.	Honolulu, T.H.	LD 47–28	444 Tennyson-p
[4]Thompson, Georgia Emily A.B., Stanford, 1911, M.D., 1914	Fresno	Sch. Ed. gr.	Madroño-*1094*
Thompson, Harlan Steele A.B., Stanford, 1925	Billings, Mont.	M.E. 194+81	Sigma Chi-*628*
Thompson, Harold Franklin B.S., Notre Dame, 1924	Arcadia	Med. gr.	260 Toyon-*694*
Thompson, Henry Webb	Glendale, Ariz.	LD 120+154	13 Salvatierra-*1635*
[1]Thompson, Herman James	Tacoma,Wn.	LD 15–3	444 Encina
[4]Thompson, John Milton B.S., Mt. Union, 1920	Monterey	Law gr.	University Hotel-p
Thompson, John West	Puebla, Mex.	LD 22·38+5	236 Encina
Thompson, Kenneth Joseph A.B., Stanford, 1925	Red Bluff	Pre-Clin. 187+152	249 Branner-*94*
[5]Thompson, Kenneth Wade	Fresno	Pre-Med.137+149	251 Toyon-*1468*
Thompson, Louis Caryll A.B., Stanford, 1924	Los Angeles	C.E. gr.	61 Sequoia-*1236*
Thompson, Nesta Mary A.B., Washington, 1916, A.M., 1919	La Jolla	Engl. gr.	Madroño-*935*
[1]Thompson, Thomas Francis	Ojai	LD 5–16	30 Encina-*2006*
Thomson, Elwyn Arthur	Palo Alto	Econ. 40·87+59	333 Waverley-p
Thomson, Frederick David	Los Angeles	LD 115+30	Alpha Delta Phi-*J*
[13]Thomson, Robert Edward	Los Angeles	LD 76+19	12 Sequoia-*891*
Thomson, William Lyon A.B., Stanford, 1924	San Francisco	Med. gr.	1542 Jackson, SF-sf
Thornton, Edith Alden	Los Angeles	LD 45+12	165 Roble-*1531*
[1]Thornton, Jack Welland	Winnipeg, Can.	LD 35–9	475 Forest-p
Thornton, Leigh Grey	Los Angeles	LD 34–3	226 Encina-*1531*
[124]Thornton, William C. D.	San Francisco	LD 52–4	AlphaKappaLambda-*658*
Thorpe, Allene Warden	Lamar, Mo.	Econ.-Jn. 13·125+131	D.D.D.-*1325*
Thorpe, Spencer Roane	Los Angeles	LD 67+19	1001 Ramona-p
[5]Threlfall, Donald Richard	Modesto	Pre-Med.76·61+38	D.TauDel.-*1363*
[4]Thrift, Inez Esther A.B., Arizona, 1916, A.M., 1922	Phoenix, Ariz.	Engl. gr.	Roble
Thygeson, Mary	Palo Alto	LD 43·79+130	308 Roble
Thygeson, Phillips A.B., Stanford, 1925	Palo Alto	Med. gr.	Stanford Apts., SF-sf
Tibbe, Jan	Oakland	LD 47+17	304 Encina-*1833*
[5]Tilton, Edward Glen	Salt Lake City, U.	Phys. 49·124+24	235 Toyon-*1967*
[4]Tilton, Edwin Belmont A.B., Stanford, 1923	San Diego	Educ. gr.	601 Webster
Timby, Henry Edward	Salt Lake City, U.	Econ. 168+41	PhiKappaSig.-*1306*
Timmons, Colin Willis A.B., Stanford, 1925	Los Angeles	Phil. 93·89+107	Sigma Chi-*628*
Timpany, Charles Russel A.B., Stanford, 1924, A.M., 1925	Santa Clara	Chem. gr.	1775 Lexington, SC-sc
[5]Tingley, Mary A.B., Stanford, 1923	Palo Alto	Hist. gr.	5 Cowper Court-p

Tippett, George William — Palo Alto — Pre-Clin. 100·71–22 — 629 Forest-p
Titus, Robert Chadwick — Berkeley — Educ. gr. — 420 Encina-*1601*
A.B., Stanford, 1925
[12]Tocher, Lionel John W. — Middletown — LD 21–24 — 444 Encina
[23]Todd, Harold Elworthy — Hollywood — LD 119–5 — SigmaAlphaEps.-1305
Todd, Harrison Tyler — San Francisco — LD 92+33 — Sigma Nu-*1385*
Toffelmier, Bruce Cormack — Sebastopol — LD 70–10 — AlphaTauOmega-*1384*
Tognazzini, Aileen Virginia — Santa Maria — Span. 131+60 — Alpha Phi-*1387*
Tognazzini, Roland Erwin — San Francisco — Law gr. — 219 Encina
A.B., Stanford, 1924
Toland, John De Moss — Los Angeles — LD 154+14 — 65 Sequoia-*644*
[5]Tolerton, David — Palo Alto — LD 41+18 — 959 Waverley-p
Toll, Marian Louise — San Diego — Econ. 8·140+165 — 255 Roble
[5]Tolman, Blanche H. — Stanford Univ. — Hist. 109+8 — San Juan-*830*
Tolman, Frank Bronson — Stanford Univ. — Geol. 201+143 — San Juan-*830*
A.B., Stanford, 1925
[12]Topoozian, Varsen — Fresno — Educ. gr. — Manzanita-*818*
A.B., California, 1923; A.M., Stanford, 1925
[5]Tormey, Donald James — Spokane, Wn. — LD 43+28 — Sigma Nu-*1385*
[4]Tostenson, Frederick O. — Fresno — Germ. gr. — 310 Toyon
B.S., Haverford, 1911
[4]Tower, Ann Harper — Palo Alto — LD — 683 Hamilton-p
Towers, Harold Dreher — Pasadena — LD 87+7 — *242* Branner-*35*
[4]Townsend, Helen Margaret — Howe,Okla. — Engl. gr. — 355 Roble
A.B., Hendrix, 1924
[124]Toy, Clarence Joseph — San Jose — Econ. 79·31+7 — 837 Delmas, SJ-sj
Toyoda, Hideo Warren — Palo Alto — Pre-Med. 92+42 — Box 285, p
[4]Trabert, Lysle R. — Fallon, Nev. — Engl. gr. — 241 Roble
A.B., Nevada, 1915
[23]Tracksell, Ruth Virginia — Los Angeles — Hist. 92·35+50 — 210 Roble
Trahern, James William — San Leandro — C.E. gr. — 633 Hamilton-p
A.B., College of the Pacific, 1923
Trattner, Harold David — Los Angeles — LD 56+56 — 137 Branner-*1173*
Trautz, Rose E. L. — Cottonwood — Bact. 140+63 — 253 Roble-*812*
Travers, William Jaspar, Jr. — Placentia — LD 8·49+46 — 400 Encina-*1691*
Treat, Van Allen — Sausalito — M.E. 135·49+49 — PhiKap.Sig.-*1306*
A.B., Stanford, 1925
Tremaine, Glendon Louis — Los Angeles — Econ. 15·169+77 — Sigma Chi-*628*
A.B., Stanford, 1925
[4]Tremaine, Harry Raymond — Los Angeles — Law gr. — Sigma Chi-*628*
A.B., Stanford, 1923
[23]Triest, Frank Sol — Los Angeles — LD 23+12 — 206 Encina-*1020*
Triest, Robert Joseph — Los Angeles — Law 172+4 — 6 Union-*1020*
[1]Trigeiro, William Francis — Sebastopol — LD 6–16 — 45 Encina
[4]Trimble, Eunice — Wickliffe, Ky. — Sch. Ed. gr. — Roble
A.B., Vanderbilt, 1922
Trippet, Oscar A., II — Topanga — Law 9·171+55 — Kappa Alpha-*1356*
A.B., Stanford, 1925
Trist, Marian Abigail — Palo Alto — Fr. 181+342 — 375 Everett-p
A.B., Stanford, 1925
[134]Trombetta, Julius Caesar — Manteca — LD 73+46 — Breakers-*9*
Trotter, Frederick E. — Honolulu, T.H. — LD 45·40+15 — 306 Encina-*1766*
Trowbridge, Dwight Howe — Fresno — LD 41+5 — 115 Encina-*1872*
Troyer, Gifford LeRoy — Hollywood — LD 90+82 — Phi Kappa Psi-*1333*

True, Cecil Leslie	Spokane, Wn.	Econ. 136+49	Theta Chi-*1383*
[3]Truedson, Hokan N.	Gresham, Ore.	Educ. gr.	Menlo Park
B.S., Oregon Agricultural, 1923			
Truman, John Edwards	Oakland	LD 59+6	Sequoia
[2]Tsao, Song-Ping	Hofei, China	Econ. gr.	Chinese Club-*960*
A.B., National University of Peking, 1921			
[5]Tsi, Yu Fang	Palo Alto	Engl. gr.	168 University-p
A.B., Stanford, 1925			
Tsui, Tsong-Hsun	China	Pol. S. gr.	205 Union-*14*
A.B., Stanford, 1924, A.M., 1925			
Tucker, James Bradley	Twin Falls, Ida.	LD 50+83	429 Encina-*1681*
[5]Tucker, N. Millett	Seattle, Wn.	Econ. 126+17	PhiGam.Delta-*1324*
Tucker, Orville Hugh	Stanford Univ.	C.E. gr.	319 Encina-*M*
A.B., Stanford, 1924			
[3]Tull, Floyd William	Palo Alto	LD 66–10	912 Cowper-p
[5]Tully, Charles Wallace	Palo Alto	Min. 137+40	154 Bryant-p
[234]Turner, Marion Esther	San Martin	Engl. gr.	340 Lowell-*1325*
A.B., Stanford, 1924			
Tussing, A. Marjory	Pasadena	Engl. 135·45+21	230 Roble-*736*
A.B., Stanford, 1925			
Tuthill, Ruth Elizabeth	Portland, Ore.	LD 40+13	171 Roble-*52*
Tutman, Baldo Joseph	Mountain View	Econ. 54·132+27	Mt. View-mv
A.B., Stanford, 1925			
Tuttle, Lawrence S.	Kauai, T.H.	LD 49+78	43 Encina-*1587*
Tyroler, Frederic Nathan	Los Angeles	Phyl. 136+117	*227* Branner-*137*
[12]Ullberg, Lloyd Edwin	Turlock	LD 81+34	111 Toyon-*605*
[4]Underwood, Carl Stanton	RedwoodCity	Sch. Ed. gr.	419 E. Fuller, RC-rc
A.B., Illinois, 1911			
[1]Uono, Kiyoshi	San Francisco	Econ. ‡ 28–6	*733* Ramona
Updegraff, George Gavin	Portland, Ore.	Law gr.	Sigma Chi-*974*
A.B., Stanford, 1925			
Upton, John Roland	San Francisco	LD sp. 88+6	1896 Pacific, SF-sf
Urner, Philip Summerfield	Mt. View	Hist. 166+*222*	Sigma Chi-*628*
[5]Urquhart, Ross Alexander	Hollywood	Econ. 61·86+31	DeltaUpsilon-*1353*
Usui, Rensuke	Naganoken, Japan	E.E. gr.	557 Encina-*598*
A.B., Tokyo Technical College, 1919; Engineer, Stanford, 1925			
Vail, Edwin Holloway	Altadena	Soc. S. gr.	90 Sequoia-*97*
A.B., Stanford, 1922			
[2]Valenzuela, Cruz Z.	Philippine Is.	Law gr.	711 Cowper
B.S., Southern California, 1924			
[5]Vallat, Eugene Hopson	Santa Monica	Geol. 126+66	PhiKap.Sigma-*1306*
Van Amringe, John David	Geyserville	LD 106–5	*228* Branner-*1225*
Van de Carr, William D. B.	Hollywood	LD 98+32	300 Toyon-*691*
Vanden Akker, Kryne	Los Angeles	LD 45+33	427 Encina-*2009*
[12]Vanderkamp, John Francis	San Jose	LD 68–3	*22* Sequoia
Van Deventer, William C.	Long Beach	Pre-Med.153+158	310Toyon-*1944*
Van Druten, ArthurA.	Los Gatos	Pre-Clin. 90·104+60	60 Sequoia
A.B., Stanford, 1925			
[4]Van Etten, Ilza Katrine	Palo Alto	Hist. gr.	465 Hawthorne-p
A.B., Stanford, 1915			
[23]Van Fossen, Elinor Vesta	Dunsmuir	LD 29+8	*222* Roble-*1847*
Van Gessel, Edwin Hondius	Holland	Geol. 36–39	503 Encina
[2]Van Gundy,Kenneth W.	Haiku, T.H.	LD 67+15	561 Fuller, SJ-sj
VanHook, Stuart Guillot	Santa Monica	Econ. 168+76	PhiKappaPsi-*1333*
Van Horn, Evelyn Adene	Denver, Colo.	Econ. 180+209	Alpha Omicron Pi

Van Horn, Mary Acelia	Monrovia	LD 41–2	336 Roble-*1526*
[4]Van Houte, Lydia Theodora	Twisp, Wn.	Fr. gr.	Ravenswood-p
A.B., State College of Washington, 1922			
[4]Van Houte, William	Twisp, Wn.	Span. gr.	Ravenswood-p
A.B., State College of Washington, 1922			
§Vaniman, Wilbur F.	McPherson, Kans.	Zool. gr.	851 University-p
A.B., McPherson, 1918			
Van Vleck, Jule	Palo Alto	Hist. 138+62	1401 Emerson-p
Van Vorhis, Louis Graves	Corcoran	Econ. 132+45	Theta Xi-*1355*
Varian, Russell Harrison	Halcyon	Phys. 180+100	28 Alvarado
A.B., Stanford, 1925			
Vaughan, Frances Robin	Palo Alto	Law 134+109	167 Roble-*1235*
[1]Vaughn, Gerald Oliver	Palo Alto	M.E. 128+121	County Road
Vaughn, John Orren	Pasadena	Med. gr.	2112 Pine, SF-sf
A.B., Stanford, 1924			
de Vaux, Myrtle	Piedmont	LD 45+50	156 Roble-*1576*
Venske, Harold	Palo Alto	Econ. gr.	1832 Cowper-p
A.B., Stanford, 1921			
Verbarg, Dorothy Dressler	SanFrancisco	Math. 7·149+196	306 Roble
[23]Vermilya, Robert Hume	San Francisco	LD 23+5	204 Encina
[4]Vickers, Russell Rogers	San Mateo	LD ‡	Mills Hospital, SM-sm
[5]Vickers, Wallace J.	Logan, Utah	Engl. gr.	University Park
B.S., Utah Agricultural, 1912; A.M., Stanford, 1925			
Villadolid, Deogracias V.	Nasugbu, P.I.	Zool. gr.	705 Cowper-p
B.Agr., Philippines, 1919, B.S.A., 1922, M.S.A., 1923			
Vincenti, Louis Rudolph	Pasadena	LD 45+66	216 Encina-*1542*
Vinetz, Joseph Charles	Los Angeles	Med. gr.	Normandie Hotel, SF-sf
A.B., Occidental, 1922			
Vinsonhaler, George R.	Stanford Univ.	M.E. 10·171+18	320 Union-*1207*
A.B., Stanford, 1925			
Virag, Alfred	San Francisco	LD 94+54	Theta Chi-*1383*
[2]Voss, Paul J.	Elk Grove	Min. 120·60+23	214 Union-*1714*
A.B., Stanford, 1925			
Vredenburgh, Ruth	Palo Alto	Econ. 129+4	Sigma Kappa-*1327*
[4]Wachter, Edna Elizabeth	Menlo Park	Cl. Lit. gr.	Menlo Park
A.B., Sacred Heart, 1924			
[2]Wachter, Sibyl	Toledo, O.	S. Biol. gr.	Madroño-*1184*
A.B., Wellesley, 1920			
[5]Wade, Charles R.	Palo Alto	Engl. gr.	1102 Ramona-p
A.B., Southern California, 1924			
Waggoner, Stephen G.	WichitaFalls, Tex.	Geol. 87·65+5	500 Encina-*2048*
Wagner, Charles Christian	Stockton	LD 41+6	234 Encina
Wagner, Ernest Dean	San Francisco	LD 49+40	122 Encina
Wahlenmaier, Henrietta	Columbus, O.	Educ. gr.	1260 Emerson-p
B.S., Ohio State, 1920; A.M., Stanford, 1925			
[1]Wais, John, Jr.	Merced	LD 66+62	5 Sequoia
[23]Waite, Eric Lyman	Los Angeles	LD 66+3	Delta Chi-*1304*
Waite, Margaret	Los Angeles	LD 45+27	382 Roble-*1906*
[23]Waitzinger, Ludwig A.	Mayfield	Bot. gr.	346 Harvard, M
B.S., Jena, 1912			
Wakefield, Claude E.	Tacoma, Wn.	Law gr.	Sigma Nu-*1385*
A.B., Stanford, 1925			
Wakefield, Jean	San Francisco	LD 46+13	Roble
[12]Waldron, Anne Stillman	Los Angeles	LD 54+20	332 Roble-*1907*

§ Deceased April 26, 1925

[4]Walford, Lionel A.	Berkeley	Zool. ‡	Pacific Grove-pg
Walker, Carroll Dexter	San Francisco	LD 92+110	659 Middlefield-p
Walker, Edgar Lee	Wyatt, La.	Hist. 90·31+17	Sigma Chi-*628*
[12]Walker, Eugene K.	Salt Lake City, U.	LD 72+69	Sigma Chi-*82*
Walker, Fletcher Loren, Jr.	Westwood	M.E. 132+94	Chi Psi-*N*
[5]Walker, John Carlton	Wilmington, Del.	LD 102–2	Theta Xi-*1355*
Walker, Kenneth Roswell	Westwood	LD 93+25	Chi Psi-*N*
Walker, Ralph Stanton A.B., Stanford, 1925	Willows	Pre-Clin. 135·46+4	637 Gilman-p
Walker, Roland Douglas	Palo Alto	Pre-Med.33·124+106	310Ramona-p
Walker, Samuel Jeremiah A.B., Whittier, 1922	Yorba Linda	Med. gr.	S.F. Hospital, SF-sf
Wall, Hugo	Inman, Kans.	Pol. S. 117·49+56	1055 Cowper-*651*
Wallace, Bruce McClain A.B., Pomona, 1920	Stanford Univ.	Law gr.	302 Union-*1731*
[2]Wallace, Hugh H.	Auburn	Geol. 160+14	333 Union-*671*
Wallace, Janet	San Angel, Mex.	Span. 140+167	Kap.Al.Theta-*1336*
Wallace, John H., Jr.	San Francisco	LD 136+62	212 Toyon-*1855*
Wallace, William Kenneth	Palo Alto	Min. sp. 137–9	1136 Webster-p
Walling, Curtis R. A.B., Stanford, 1925	Fresno	M.E. 98·99+110	110 Toyon-*909*
Walling, Linda Joyce	Fresno	Econ. 88·44+48	217 Roble-*909*
Walsh, Walter Pernau	San Francisco	Law 99+7	216 Branner
[4]Walton, C. Leroy B.S., California, 1912	Caruthers	Educ. gr.	374 Kingsley-p
[4]Waltz, Henry Washington, Jr. A.B., California, 1921	Oakland	Educ. gr.	625 Hamilton-p
[5]Wang, En Fan	Peking, China	Econ. 90·48+26	Chinese Club-*1130*
[5]Wankowski, Victor Otto	Hollywood	Min. 137+77	249 Toyon-*I*
Ward, Jean	Mill Valley	Hist. 135+116	Kap.Kap.Gam.-*1354*
Ward, Phebe Watkins	Delano	LD 44+45	367 Roble-*584*
Ware, Margaret A.B., Stanford, 1924	Chico	Engl. gr.	Manzanita
Warner, Hal Fred	Los Angeles	Pol.S.39·105+29	P.KappaPsi-*1333*
Warner, Richard Alonzo	San Francisco	LD 42–8	310 Encina-*1743*
[4]Warren, Herbert S. B.S., College of the City of New York, 1911; A.M., Columbia, 1920	Pasadena	Zool. gr.	Pacific Grove-pg
Warrington, Peirce E.	San Francisco	M.E. 148+167	236 Toyon-*605*
Wasson, George F.	Salt Lake City, U.	Law 111+7	PhiKap.Sigma-*1306*
Waterhouse, Edson Peter	San Francisco	Econ. 123+4	Beta Theta Pi-*1335*
Waters, Max Archie	Chico	Pre-Clin. 53·113+27	203 Union
[4]Watkins, Louise North A.B., Minnesota, 1917	Pendleton, Ore.	Engl. gr.	248 Roble
[12]Watson, E. Brandon	Shasta Springs	Econ. 34·78+6	202 Branner
[5]Watson, Frances Rhodes	Palo Alto	LD 36+1	559 Tennyson-p
Watson, John Barry	San Francisco	LD 17–16	229 Encina-*2036*
Watson, Margaret Eva A.B., Stanford, 1925	San Francisco	Engl. 186+99	KappaAl.Theta-*1336*
[2]Watson, Vesta H. A.B., Nevada, 1924	Sonora, Ark.	Engl. gr.	Manzanita
[2]Watt, Geraldine Estelle A.B., Stanford, 1925	San Francisco	Hist. 181+106	Pi Beta Phi-*1332*
Watt, Rolland George	San Francisco	LD 91+22	Beta Theta Pi-*1335*

Wattenberger, Norton E. A.B., Stanford, 1925	Palo Alto	Econ. 10·171+54	234 Fulton-p
[4]Watters, Thomas Smith	Los Angeles	LD	323 Union
[5]Watterson, Whittier Caldwell A.B., Stanford, 1924	Bishop	Chem. gr.	321 Union-*721*
[1]Watts, Wesley Howard	Stanford Univ.	LD 3–15	24 Kingscote-*1991*
Way, Harold Franklin	Petaluma	LD 45+54	317 Encina-*1803*
Wayte, Paul Henry	Norwalk	Law 142+33	302 Branner-*1285*
[4]Weage, Densmore C.	Clovis	LD ‡	519 Addison-p
[23]Weakley, Joseph E.	Fresno	LD 28–4	111 Encina-*1139*
[4]Wear, Margaret	Fresno	Educ. 90·41+57	Sigma Kappa
Weaver, Arthur Filmer	San Francisco	LD 51–8	27 Sequoia-*1965*
Weaver, Clarence Eugene A.B., Stanford, 1922	Mayfield	Med. gr.	370 Amherst, M-*1157*
[4]Weaver, Esther Leah A.B., Stanford, 1921	Fresno	Sch. Ed. gr.	103 Roble
Weaver, Harold L. A.B., Southern California, 1924	Palo Alto	Med. gr.	1035 Emerson-p
Weaver, Lee Jackson	Los Angeles	LD 47+32	326 Encina-*1736*
Weaver, Vance Cranston	Los Angeles	LD 27–14	218 Encina-*1501*
Webb, Laura Sherman	San Diego	LD ‡ 88+107	156 Roble-*1512*
[12]Weber, Verne Andrew	Fresno	LD 70+0	Sig.AlphaEpsilon-*1305*
[2]Webster, Jackson L. A.B., California, 1921	Palo Alto	Psych. gr.	1146 Waverley-p
Webster, Lawrence Elbert	Riverside	Chem. 90·52+84	63 Sequoia
[5]Wedel, Oswald Henry A.B., Arizona, 1923; A.M., Stanford, 1924	Mayfield	Hist. gr.	480 Washington, M-*542*
Weeden, S. Lydia	San Francisco	LD 90+63	373 Roble-*615*
[1]Weichselfelder, Marguerite A.B., Stanford, 1925	Palo Alto	Econ. 6·190+208	456 Ruthven-p
Weigel,Stanley Alexander	San Francisco	Law 157+149	139 Branner
Weil, Conrad, Jr.	Redwood City	C.E. 154+11	Box 263, rc
Weil, Martin John	San Francisco	LD 46+23	335 Encina
Weil, Theodore Mitchell	Redwood City	Econ. 109+54	Box 263, rc
[5]Weisman, Theodore	Los Angeles	Law 91+57	317 Union-*596*
Weiss, Marie J. A.B., Stanford, 1925	Stockton	Math. 186+312	316 Roble-*677*
Welch, Doris A.	Lodi	LD 47+52	322 Roble
[5]Welch, Whiting	San Francisco	Econ. 113+2	DeltaKappaEps.-*O*
Wells, Edward E., Jr. A.B., Stanford, 1925	Oakland	Econ. 15·166+39	31 Sequoia-*897*
Wells, Walker Marshall	Palo Alto	LD 45·73+20	Sig.Al.Epsilon-*1305*
Wells, William Bruce	San Francisco	M.E. 158+51	324 Union
Welsh, Robert A., Jr.	Bellingham, Wn.	LD 84+16	Phi Gamma Delta-*1324*
[4]Wenk, Sarah Elizabeth A.B., Southern California, 1912	Palo Alto	Sch. Ed. gr.	707 Addison-p
Wents, John Henry, Jr.	Fullerton	LD 74+1	135 Toyon-*1642*
Wentworth, Brandon	Boston, Mass.	LD 90+41	110 Branner
[234]Wenzel, Robert Nicolas A.B., Stanford, 1916, Engineer, 1917	Palo Alto	Chem. gr.	1112 Ramona-p
van der Werker, Harrison	Everett, Wn.	LD 48+31	428 Encina-*1841*
[12]West, Clarence C., Jr.	San Gabriel	LD 82+98	Phi Delta Theta-*1334*
[1]West, Roger S.	Pasadena	LD 0–15	302 Encina
West, Ruth A.B., De Pauw, 1921	Muncie, Ind.	Span. gr.	Manzanita-*1726*

West, Thomas Hume A.B., Stanford, 1925	Santa Ana	E.E. 184+75	65 Sequoia-*816*
[5]Westall, Lucy Adele	Sierra City	Bact. 15·134+104	339 Emerson-p
[4]Wester, Lucile A.B., Fresno State Teachers College, 1925	Tulare	Sch. Ed. gr.	133 Roble
Westerfield, Wanda	Riverside	Math. 94+67	GammaPhiBeta-*1337*
[5]Westigard,ClarenceN.	Minneapolis,Minn.	Math. gr.	604 Gilman-p
A.B., Stanford, 1924, A.M., 1925			
Weymouth,Lawrence B.	Salt Lake City,U.	LD 44+32	247 Encina-*1972*
[4]Whealen, Mary A.	Fresno	LD ‡	611 Bryant-p
Wheat, Gilbert Collins A.B., Stanford, 1925	Los Angeles	Law 184+176	DeltaKappaEps.-*O*
Wheaton, George Sterett	San Francisco	LD 93+45	Alpha Delta Phi-*JJ*
Wheeler, Maynard Cattron	Tacoma, Wn.	Pre-Med135·43+74	PhiD.Th.-*1334*
Wheeler, Newton French	Monrovia	LD 39+8	405 Encina-*1451*
Whiffen, Alice Emma	San Jose	Engl. 85·49+13	104 Roble-*613*
[4]Whisler, George H. A.B., Rutgers, 1916	Palo Alto	Soc. S. gr.	721 Waverley-p
Whisler, Hugh Levan A.B., Stanford, 1925	Portland, Ore.	M.E. 184+132	25 Sequoia-*688*
[5]Whitaker, Douglas M.	Stanford Univ.	Zool. 150+133	Pacific Grove-pg
Whitaker, Louise M.	Stanford Univ.	Math. 98+100	Kap.Kap.Gam.-*995*
Whitcomb, Thayer W. A.B., Stanford, 1924, Engineer, 1925	Fessenden, N.D.	Chem. gr.	437 Encina-*988*
[1]White, Albert Cosad	Oakland	M.E. 10·168+42	120 Toyon-*90*
White, Allen C. A.B., Stanford, 1925	San Francisco	C.E. 181+175	217 Toyon-*1468*
White, Anne Terry Ph.B., Brown, 1918; A.M., Stanford, 1925	Palo Alto	Engl. gr.	786 Palo Alto-p
White, C. Bolton	Palo Alto	LD 89+63	171 Churchill-p
[3]White, Douglas Ashbridge	Glendale	LD 14+0	249 Encina
[4]White, Edith A. A.B., California, 1924	Dinuba	Hist. gr.	RFD 35, mp
White, Edward Arthur	Madera	LD 51+70	310 Encina
[4]White, F. Katherine	Berkeley	LD ‡	156 Kellogg-p
[4]White, Frances Caroline A.B., Washington, 1922	Dillon, Mont.	Educ. gr.	258 Roble-*1145*
White, Harold LeRoy A.B., Stanford, 1925	Bakersfield	C.E. 188+107	Delta Chi-*1304*
[5]White, Harry Dexter A.B., Stanford, 1924, A.M., 1925	New York, N.Y.	Econ. gr.	132 Toyon
[4]White, Helen G.	Fresno	LD 92·16+4	Sigma Kappa-*1327*
[4]White, Hubert Bernard A.B., Iowa State Teachers College, 1921	Cedar Falls, Ia.	Educ. gr.	221 Toyon
White, John Robert, III	Glendale	Econ. 40·136+60	Sigma Chi-*628*
White, Lynn T., Jr.	San Anselmo	LD 45+79	330 Encina-*1953*
White, Marian Adele	San Francisco	LD 47·48+26	258 Roble-*1035*
White, Robert Jenkins A.B., Stanford, 1925	Los Angeles	Econ. 182+27	Al.TauOmega-*1384*
[1]Whitehead, Seward S.	Redwood City	LD 102–11	Theta Xi-*1355*
[234]Whiteside, George K. A.B., Yale, 1922	Woodbridge, Ct.	Econ. gr.	721 Waverley-p
Whitfield, Glenn Everett	Vancouver,Wn.	Law 134+153	Delta Chi-*1304*
[4]Whiting, John Martin A.B., Brigham Young, 1919	Mapleton, Utah	Educ. gr.	465 Hamilton

Whitmore, Max Montgomery A.B., Stanford, 1925	Nephi, U.	Econ. 180+95	Kappa Alpha
[4]Whitney, Dorothy A.B., Oklahoma, 1922	Milton, Ore	Cl. Lit. gr.	Palo Alto-p
Whitney, Francis Edwin	Altadena	LD 44+36	107 Encina-*135*
[1]Whitwam, Franklin L.	Mountain View	M.E. ‡	Box 239, mv
[4]Whittlesey, Theodosia E. A.B., Chicago, 1902	San Francisco	Cl. Lit. gr.	Menlo Park-mp
Wiberg, Harry Austin	Phoenix, Ariz.	Econ. 103+18	Theta Delta Chi
Wicher, Herbert W.	San Anselmo	LD 43+8	332 Encina-*1734*
[12]Widaman, Perry D. A.B., Stanford, 1925	Stanford Univ.	LD 190+56	Alpha Delta Phi-*J*
Widaman, Wendell Oliver	Los Angeles	Law 141+89	232 Branner-*575*
[4]Widick, Ralph H.	Emporia, Kans.	LD sp.	1004 Emerson-p
Wiedmann, Milton Lawrence A.B., Stanford, 1925	Oakland	M.E. 92·88+142	132 Branner-*1664*
Wiggin, John Louis	Bombay, India	LD 67+20	800 Hamilton-p
Wiggins, Ira Loren A.B., Occidental, 1922; A.M., Stanford, 1925	Menlo Park	Bot. gr.	Box 788, mp
[5]Wight, Griffith	Redwood City	Law 28+33	R.F.D. 2, rc
[4]Wight, Margaret Virginia	Palo Alto	Fr. 27+10	Base Hospital-p
Wight, Roland Henry	Mayfield	LD 95+94	Mayfield-Box 246, p
[3]Wilbur, Elizabeth LaGrange	Los Angeles	LD 45·43+21	105 Roble-*854*
Wilbur,Leonard Fisk	Washington, D.C.	LD 47+94	250 Encina-*1212*
[5]Wilbur, Lois Proctor	Stanford Univ.	S. Biol. 118+52	Lagunita Knoll-*70*
*[1]Wilbur, Paul Curtis A.B., Stanford, 1924, Engineer, 1925	Carmel	Chem. gr.	Box 885, Carmel-c
[12]Wiley, Will E. A.B., State College of Washington, 1920; A.M., Stanford, 1925	The Dalles, Ore.	Educ. gr.	362 Hanover, M-*833*
[4]Wilkey, Frank Wilson	San Francisco	LD 11–11	131 Toyon
[4]Wilkonson, Louise B.S., Oklahoma, 1924	Sapulpa, Okla	Sch. Ed. gr.	Kingscote
[4]Willard, Kittie L. Trador A.B., Stanford, 1904	Oakdale	Hist. gr.	Madroño
Willard, Oliver M.	San Francisco	LD 57+34	309 Encina
[1]Willcox, Marie Louise	Atherton	LD 33+0	225 Roble-*584*
[4]Williams, Alta A.B., Stanford, 1924	Long Beach	Psych. gr.	1035 Bryant
Williams, Byron Drew	Los Angeles	Law 136+77	245 Toyon-*661*
[4]Williams, Christobel Elliott A.B., Stanford, 1915	Los Angeles	Sch. Ed. gr.	5 Cabrillo
Williams, Dorothy Evelyn A.B., Stanford, 1925	San Francisco	Hist. 48·132+87	Pi Beta Phi-*1332*
[4]Williams, Eleanor K. A.B., Western Reserve, 1922	New York, N.Y.	Engl. gr.	723 Hamilton-p
Williams, Elizabeth Moody	Palo Alto	LD 93+24	Kap.AlphaTheta-*1336*
[4]Williams, F. Iola A.B., Stanford, 1924	Madera	Sch. Ed. gr.	Roble-*1332*
Williams, Fleta Hazel A.B., Stanford, 1920, A.M., 1925	Stanford Univ.	Med. gr.	34 Lasuen-*975*
Williams, Florence S.	Twin Falls, Ida.	LD 71·83+84	Sigma Kappa-*1327*
[4]Williams, Frank Marion B.S., California, 1914	College City	Sch. Ed. gr.	304 Toyon
[23]Williams, Gordon Harry	Quincy, Ill.	Sch. Ed. 113+5	AlphaDeltaPhi-*JJ*
Williams, Hal St. Clair	Los Angeles	LD 70+8	51 Sequoia-*1994*

[12]Williams, Harry A. A.B., Stanford, 1925	Santa Clara	C.E.51·134+118	1146Linc'ln,SC-sc
Williams,Jean L.	Ft.Leavenworth,Kans.	LD 37–4	356 Roble-*1977*
Williams, John Sheldon, Jr. A.B., Stanford, 1925	San Jose	Law 184+158	875 Plaza Dr.,SJ-sj
[12]Williams, Joseph Hunt	Ross	LD 54–25	217 Toyon-*715*
[2]Williams, Marjorie Curry	Palo Alto	Engl. 117·28+25	1429 Emerson-p
Williams, Robert Eldred	Pasadena	LD 91+5	Beta Theta Pi-*1335*
Williams, Roy	San Jose	LD 24–22	449 Encina-*998*
[24]Williams, Ruth B.J., Missouri, 1924	Selma	Engl. gr.	Kingscote
Williams, Winifred Hope	Houston, Tex.	LD 45+35	356 Roble-*1977*
[3]Williamson, David Arnold	Berkeley	LD	Cooksey Lane-*31*
[5]Williamson, G. Gregory	San Francisco	LD 59+35	Alpha Delta Phi-*JJ*
[4]Williamson, Roy Franklin A.B., Stanford, 1924	Sebastopol	Sch. Ed. gr.	18 Lasuen
Williamson, Vera Alberta	Hollywood	LD 92+31	Kap.AlphaTheta-*1336*
[234]Williard, Henry Ormiston	San Jose	Law 30·158–10	201 Union
[4]Willis, Caroline A.B., Stanford, 1923	Redlands	Law gr.	603 Melville-*1061*
Willis, Henry James A.B., Stanford, 1925	Los Angeles	Econ. 180+81	331 Union-*1061*
Willis, H. Paul A.B., Stanford, 1925	Wichita, Kans.	Econ. 182+173	304 Branner-*703*
Willits, John Metts A.B., Stanford, 1925	Palo Alto	Econ. 8·219+289	111 Toyon
Willson, Harold Orvis	Sunnyvale	Econ. 45·92+18	Sunnyvale-s
[5]Wilson, Albert	San Francisco	LD 82+7	Toyon
Wilson, Catherine Newell	Los Angeles	LD 39–9	226 Roble
Wilson, Charles Jasper, Jr.	Woodlake	Pre-Med. 101–6	ThetaDel.Chi-*T*
Wilson, Elwood Jasper	Manteca	LD 45+1	215 Encina-*1424*
[4]Wilson, Francis Graham A.B., Texas, 1923, A.M., 1924	Fresno	Pol. S. gr.	847 Bryant-p
[5]Wilson, Fred Ozanne	Phoenix, Ariz.	Law ‡ 34–14	27 Alvarado-*1823*
[1]Wilson, Gerard A.B., Stanford, 1922	San Jose	E.E. gr.	523 Encina-*656*
[3]Wilson, Jack West	Menlo Park	LD 16+8	Box 3, mp
[5]Wilson, James Charles	Fresno	Engl.-Jn. 23·70+8	135 Toyon-*1962*
[23]Wilson, James Hood	Carmel	Econ. 113–4	Sigma Nu-*1385*
[5]Wilson, John Cornell	San Jose	LD 43–13	County Hospital, SJ-sj
[23]Wilson, Leslie Edwin A.B., Stanford, 1922	Portland, Ore.	Law gr.	1020 Channing Lane-p
Wilson, Louise Ede	Palo Alto	Span. 118+116	147 Roble
[1]Wilson, Lucille Mortimer	Palo Alto	LD 69+32	459 Ruthven-p
Wilson, Marjorie Edith	Los Angeles	LD 84–6	Pi Beta Phi-*1332*
[5]Wilson, Martel D.	Stockton	Hist. 31·135+1	Sig.AlphaEps.-*1305*
[4]Wilson, Mildred Ernestine A.B., Washburn, 1919	Richfield,Kan.	Bact. gr.	Roble
[4]Wilson, Ray Rollin A.B., College of the Pacific, 1923	Linden	Sch. Ed. gr.	353 Lytton
[12]Wilson, Wendell Rogers A.B., Stanford, 1925	Stanford Univ.	C.E. 196+127	508 Encina
Wilt, James W.	Bakersfield	LD 39–8	307 Encina-*1527*
[34]Wimmer, John Duhme A.B., Miami, 1919	Indianapolis,Ind.	Hist. gr.	405 Kipling-p

Wimmer, Shirley D. A.B., Stanford, 1922	Salt Lake City, U.	Med. gr.	2286 Jackson, SF-sf
[4]Winans, Benjamin A. A.B., Indiana, 1907	Livingston, Mont.	Educ. gr.	142 Toyon
Windham, James B.	Long Beach	LD‡30–10	DeltaKap.Epsilon-*OO*
Windsor, Gerald Pryce, Jr.	Los Angeles	LD 125–3	201 Branner-*1875*
Windt, Bernice	San Francisco	Econ. 123+101	244 Roble-*544*
Wing, Frederic Sevier	Banning	LD 40+5	324 Encina-*1826*
Wingard, Francis Eugene	Long Beach	Econ. 116–10	Theta Xi-*1355*
[34]Winn, Joseph William A.B., Fresno State Teachers College, 1923	Fresno	Educ. gr.	1398 Villa, MV-mv
[12]Winn, Montgomery E. A.B., Stanford, 1923, J.D., 1925	Warsaw, Ky.	Law gr.	Alpha Sigma Phi-*1357*
Winn, William Alma	Salt Lake City, U.	Pre-Med59·88+60	235Branner-*919*
Winnek, Victor Charles	San Diego	LD 84+26	Sigma Nu-*1385*
[5]Winslow, Garth Douglas	Piedmont	LD 46+17	219 Toyon-*13*
[4]Winsor, Thomas K.	Tacoma, Wn.	LD sp.	723 Hamilton-p
[12]Winterbotham, Arthur G.	Riverside	LD 43·27+1	334 Encina-*1901*
[12]Winterbotham, E. Lindsey	Riverside	LD 90+140	117 Toyon-*H2*
[4]Winterburn, John C. B.S., Pittsburgh, 1923	Los Angeles	Educ. gr.	Zeta Psi
Winterburn, Joseph Charles	Sausalito	LD 46+26	215 Encina-*1631*
[1]Wirtz, Wilber Karl	Ray, N.D.	Zool. 23–39	234 S. 9th, SJ-sj
[234]Wise, Clemmer W. A.B., West Virginia Wesleyan, 1912	Palo Alto	Soc. S. gr.	625 Hamilton-p
Wise, Fred Aleck	Virginia City, Nev.	LD 45–16	247 Encina-*2038*
Wisely, Horace Rose A.B., Stanford, 1925	Terre Haute, Ind.	Econ. 89·94+118	PhiKap.Psi-*1333*
Wittenberg, Howard E. A.B., Stanford, 1925	Terre Haute, Ind.	Econ. gr.	Phi Kappa Psi-*1333*
Wittenberg, Ralph K.	Terre Haute, Ind.	Law 135+88	Phi Kappa Psi-*1333*
[23]Witter, Richard Ward	San Francisco	LD 9–22	235 Encina
[124]Wold, Lester Thompson	Pasadena	Law 88·30+10	Chi Psi-*1648*
Wolf, Paul Theodore A.B., Stanford, 1925	San Francisco	Law 180+182	212 Branner-*704*
Wolf, Willis Carlyle	San Bernardino	LD 45+13	201 Encina-*1471*
Womack, William L.	Excelsior, Minn.	LD ‡ 23–32	525 Channing-p
[5]Wong, Hung Chau A.B., Stanford, 1925	San Francisco	Chem. gr.	Chinese Club-*11*
[5]Wood, Burton D. A.B., Michigan State Normal College, 1922	Ypsilanti, Mich.	Soc. S. gr.	213 Toyon
Wood, David Alvra	Gooding, Ida.	Chem. 156+125	25 Sequoia-*1283*
Wood, Dennistoun, Jr.	Palo Alto	LD 94+165	809 Lincoln-p
Wood, Francis Hugh	Spencer, Ida.	LD 74–16	Phi Kappa Psi-*1333*
[12]Wood, Henry Carroll	Palo Alto	LD 95–8	131 Lytton-p
[5]Wood, Jessie Shirley	Merced	Math. 15·106+112	244 Roble-*1386*
[12]Wood, Katharine Allegra	Campbell	Engl. ‡ 22–22	180 Roble
[3]Wood, Louise B.S., Ohio State, 1917	Worthington, O.	Educ. gr.	111 S. 15th, SJ-sj
Wood, Mac Walter	San Jose	LD 42+17	432 Encina-*2005*
Wood, Margaret Louise	Campbell	LD 45+69	180 Roble
[4]Wood, Milo Livingston	Sherman, Tex.	Engl. ‡	1154 Palo Alto, M
Wood, N. Marian	Los Angeles	Pre-Med.135·41+26	330Roble-*1065*
[4]Wood, Ruth Lillian A.B., San Jose State Teachers College, 1924	San Jose	Educ. gr.	455 So. 3rd, SJ-sj

Wood, Walter Jordan	Whittier	LD 55+5	Alpha Tau Omega-*1384*
[23]Woodson, John T., Jr.	San Fernando	LD 6–8	707 Middlefield
Woodward, C. Kathleen	Point Loma	LD 45·41+18	*277* Roble
[4]Woodward, George J.	Topeka, Kan.	LD sp.	Zeta Psi
Wool, Fred Austen	San Jose	LD 90+114	112 Toyon-*I*
Woolf, Charles Harold	Tempe, Ariz.	LD 43+42	318 Encina-*1813*
Woolf, Henriette K.	Greeley, Colo.	Psych. 187+212	181 Roble-*627*
A.B., Stanford, 1925			
[1]Woolley, Gerald Pardon	Watsonville	LD	13 Encina
[5]Woolsey, Karl Almond	Prescott, Ariz.	LD 81·31+3	*223* Toyon
Worden, John Bairsto	San Francisco	LD 126+3	Theta Chi-*1383*
[3]Worden, Richard Carl	San Jose	LD 14+6	41 S. River, SJ-sj
Work, Thomas Albert	Pacific Grove	LD 63+51	526 View, MV-mv
[1]World, Banair	Salt Lake City, U.	Engl. gr.	1111 High-p
A.B., Utah, 1916; A.M., California, 1922			
Worswick, Mildred	San Jose	Soc. S. 119+44	268 Roble
Worthington, William	Los Gatos	LD 30+13	306 Encina-*1757*
Wright, Andrew Curtis	Palo Alto	M.E. 192+50	Theta Chi-*1383*
A.B., Stanford, 1925			
[5]Wright, Arthur Chapman	Long Beach	C.E. 90·36+11	Kappa Sigma-*1326*
[2]Wright, Edward Augustine	Oakland	Psych. gr.	460 Homer
A.B., Stanford, 1920			
[1]Wright, G. Theon	Honolulu, T.H.	LD 45·11+8	*227* Encina-*1732*
Wright, George F.	Centerville	M.E. 79–37	Kappa Alpha-*1356*
Wright, James Chalmers	Riverside	Chem. 190+121	*222* Toyon-*2045*
A.B., Stanford, 1925			
Wright, John Madden	Los Angeles	Pre-Clin. 135·48+14	*228* Union
A.B., Stanford, 1925			
Wright, Julian Chapman	Hollywood	Phil. 183+71	135 Branner
A.B., Stanford, 1925			
[4]Wright, Malcolm E.	Gold Hill, Ore.	Sch.Ed.gr.	SigmaAlphaEps.-1305
B.S., Oregon Agricultural, 1921			
[3]Wright, Margarita	Guadalajara, Mex.	Educ. gr.	1234 P.A. Ave., M-*990*
[5]Wright, Norma Knowles	Los Angeles	Econ. 98+21	349 Roble-*22*
Wright, Phillip Edwards	Sausalito	LD 97+66	Kappa Alpha-*1356*
[5]Wright, Ralph Wesley	San Jose	LD 112·64+10	PhiDeltaTheta-*1334*
[5]Wright, Robert Edward	Manila, P.I.	Hist. 144+48	209 Toyon-*1156*
Wright, Selden Stuart	Stanford Univ.	LD 94+1	Phi Kappa Sigma-*1306*
Wright, William Beatty	Stanford Univ.	Law 180+21	PhiKappaSigma-*1306*
A.B., Stanford, 1925			
[5]Wright, William Edward	Stockton	Law gr.	Theta Chi-*1383*
[12]Wright, William Lawton	Omaha, Neb.	Engl.-Jn.99+39	Kappa Alpha-*1356*
Wright, William Quinby, Jr.	Sausalito	Min. 183+197	Kappa Alpha-*1356*
[5]Wu, Chin-Chuan	Kiangyin, China	Chem. gr.	Chinese Club-*1130*
A.B., Stanford, 1925			
Wulff, Henry Lee	San Diego	C.E. 90·51+17	1160 Bryant-p
Wulfing, Gretchen	Richland Center, Wis.	LD 45·47+73	*207* Roble-*1161*
[12]Wyatt, Charles Merrill	Berkeley	Pre-Clin. ‡ 20–14	625 Hamilton-p
[234]Wyatt, Horace Graham	Lahore, India	Psych. gr. 1627	P.A. Ave., M-*1768*
Wylie, Maurice Monteith	Denver, Colo.	Econ. 130+18	113 Branner
Wyman, Frances Marie	Glendale	LD 85–4	*234* Roble-*1997*
[3]Wynn, Carol Glenn	Pasadena	LD 13+18	251 Encina
[4]Wynne, Margaret Ogier	Stockton	Educ. gr.	Pacific Grove-pg
A.B., Stanford, 1908			

[12]Yamasaki, Seizi A.B., Stanford, 1925	Kagoshima, Japan	Econ. 180+116	Japanese Club-*598*
[12]Yates, Robert Clinton	San Francisco	LD 24–33	529 Addison-p
Yoakum, Frank B., Jr.	Los Angeles	LD 88+9	Kappa Alpha-*1356*
Youd, James Thomas	Merced	LD 48+56	233 Encina-*1633*
[4]Young, Alfred Combs B.S., Kentucky, 1915	Fresno	Sch. Ed. gr.	Union
[12]Young, Evert Hale	Fair Oaks	Law 5·122+55	PhiDel.Theta-*1334*
[2]Young, Forest Herbert	Stanford Univ.	C.E.sp.44–43	PhiSigmaKappa-*538*
[4]Young, Fred Gayfield A.B., Swarthmore, 1913	Pasadena	Hist. gr.	Phi Delta Theta-*1334*
[12]Young, Lloyd Coleman	Los Angeles	LD 51–22	DeltaKappaEpsilon-*O*
Young, Ralph E.	Salt Lake City, U.	LD 38+0	405 Encina-*1762*
Zaches, John Alex	Monterey	Econ. 113–5	64 Sequoia-*1876*
[1]Zahner, Carl John	Oakland	LD sp. 19–22	445 Hamilton-p
[3]Zane, Siemon Lessard	Eureka	LD 73–22	PhiDeltaTheta
[4]Zeitlin, Marion Albert A.B., Stanford, 1918, A.M., 1920	Los Angeles	Span.gr.	15 Union
Zener, Clarence M.	Vincennes, Ind.	Math. 33·111+112	18 Branner-*1491*
Zener, Katharine Frances A.B., Stanford, 1925	Vincennes, Ind.	Psych.81·90+84	Gam.PhiB.-*1337*
Zieber, R. Lee A.B., Stanford, 1925	Palo Alto	Pre-Clin. 62·122+46	73 Sequoia-p
[4]Ziller, Madeline Veronica	Cloverdale	Hist. 162–8	156 Roble
Zitkowski, Frederick A.	Denver, Colo.	LD 7·48+86	430 Encina-*632*
Zschokke, Ann Thuretta	Palo Alto	LD 86+61	526 Forest-p
[5]Zschokke, Elsbeth E.	Palo Alto	S. Biol. 122+57	526 Forest-p
Zucco, Gaetan Marc	San Francisco	LD 105+173	125 Branner
[12]Zuck, Leo Harold	Lundville, Mont.	LD 23–17	19 Salvatierra
[4]Zwirtz, Jones Lewis A.B., Northwestern, 1923	Anaheim	Educ. gr.	211 Union
Zyve, David L. M.S., Grenoble, 1911	Mayfield	Educ. gr.	1130 Lincoln-*898*

SUMMARIES

OFFICERS

Trustees		15
Academic Council—rank of		
Professor	115	
Associate Professor	50	
Assistant Professor	30	
Total (less 1 absent on leave)		194
Other Teaching and Administrative Officers—rank of		
Emeritus Professor	12	
Clinical Professor	11	
Associate Clinical Professor	12	
Assistant Professor	16	
Assistant Clinical Professor	16	
Lecturer	26	
Instructor	64	
Clinical Instructor	32	
Associate	7	
Administrative Officer	34	
Total (less 4 absent on leave)		226
Assistants		
Instruction	77	
Research	14	
Administration	100	
Medical School	46	
Library	33	
Technical	52	
Total (less 0 absent on leave)		322
Grand Total		757

STUDENTS

	Autumn	Winter	Spring	Summer	For the Year
Graduates	456	464	493	571	1029
Undergraduates	2481	2394	2283	596	2906
Special Students	28	27	23	31	60
Total	2965	2885	2799	1198	3995

By Major Subjects

	Graduate	Undergraduate	Special	Total
Anatomy	5	—	—	5
Bacteriology and Experimental Pathology	6	8	—	14
Biology—School of	5	22	—	27
Botany	16	1	—	17
Chemistry	56	54	—	110
Classical Literature	21	2	—	23
Economics	33	296	2	331
Education—School of	111	10	—	121
—Division of	186	38	—	224
—Graphic Art	16	21	—	37
Engineering—Civil	6	42	1	49
—Electrical	21	5	—	26
—Mechanical	13	96	1	110
English	81	90	—	171
Geology	22	39	1	62
Germanic Languages	4	5	—	9
History	57	98	—	155
Hygiene	1	—	—	1
Law	117	207	1	325
Lower Division	—	1579	51	1630
Mathematics	14	18	—	32
Medicine	116	*51	—	167
Military Science and Tactics	—	1	—	1
Mining and Metallurgy	8	32	1	41
Pharmacology	2	—	—	2
Philosophy	5	16	—	21
Physics	7	7	—	14
Physiology	3	5	—	8
Political Science	17	44	—	61
Pre-Clinical	—	38	—	38
Pre-Medical	5	38	—	43
Pre-Nursing	—	1	—	1
Psychology	22	17	—	39
Romanic Languages—French	12	20	—	32
—Spanish	18	18	—	36
Social Sciences—School of	8	10	—	18
Zoology	11	23	—	34
—Entomology	4	6	2	12

* Including Chemistry majors, 2; Physiology majors, 1; Pre-Clinical majors, 38; School of Biology majors, 5; Zoology majors, 5.

By Residence—For the Year

California	3339	Minnesota	7	New Hampshire	1
Oregon	73	Wyoming	7	Tennessee	1
Washington	54	Iowa	6	West Virginia	1
Utah	43	Nebraska	5		
Idaho	35	South Dakota	5	China	29
Arizona	33	Arkansas	4	Hawaii	22
Colorado	33	Kentucky	3	Canada	16
Montana	28	Louisiana	3	Philippine Islands	8
Illinois	27	New Jersey	3	Japan	7
Ohio	20	New Mexico	3	Mexico	5
Nevada	18	Pennsylvania	3	South America	5
New York	18	Virginia	3	India	4
Kansas	17	Washington, D.C.	3	Alaska	3
Texas	15	Alabama	2	Belgium	2
Indiana	14	Connecticut	2	Central America	1
Missouri	14	Maryland	2	Germany	1
Michigan	13	Wisconsin	2	Greece	1
Oklahoma	11	Delaware	1	Russia	1
North Dakota	9	Maine	1	Sts. Settlements	1
Massachusetts	7				

STANFORD ALUMNI ASSOCIATION

CONSTITUTION

Adopted June 21, 1924

The Stanford Alumni Association is organized to promote the common interests of Stanford, its graduates and former students, as represented by the activities of the University.

ARTICLE I: MEMBERSHIP

Section 1. Any person who has been a registered student of Stanford University is eligible for membership in this Association, and may become a member by payment of the annual dues; provided, however, that only members having bachelor's degrees from Stanford University shall be eligible to any elective office in this Association.

Section 2. All members of the faculty of Stanford University are honorary members of this Association.

ARTICLE II: OFFICERS

Section 1. The officers of this Association shall be the Alumni Council, consisting of nine elected members, three of whom shall be graduates of not less than ten years' standing; three of whom shall be graduates of not less than five years' standing; and three from any class as may be selected by the nominating committee, and who shall be elected for three-year terms with terms so arranged that but three members will retire in any one year; provided, however, that the members of the Advisory Board now in office, whose terms have not expired, and those elected in June, 1924, shall remain in office for the term for which they have originally been elected; one representative, elected by each graduating class, whose term shall be one year after graduation; and one representative from each local alumni club now organized or which may be hereafter organized with the approval of the Association and having a membership in good standing of at least one hundred graduates or former students, and for each additional one hundred like members in good standing the alumni club shall be entitled to one additional representative. The University Alumni Secretary shall be ex officio a member of the Alumni Council.

The club representatives shall be elected annually by the respective clubs.

On or before June 15th of each year, the several clubs shall furnish the secretary of the Alumni Association with the name of the repre-

sentative or representatives chosen for the year beginning September 1st.

Section 2. The Alumni Council shall have general charge of all the affairs of the Alumni Association and the management of all its funds and properties. It shall have full power, and it shall be its duty to carry out the purposes of the Association according to the articles of the Association.

Section 3. The Alumni Council shall elect: (1) a President; (2) a Vice-President; (3) a Secretary-Treasurer; and (4) an Executive Committee. These officers shall be selected from, and the committee composed of, the nine elected members of the Council and the University Alumni Secretary, and shall be elected annually at the first regular meeting of the Council.

ARTICLE III: DUTIES OF OFFICERS

Section 1. It shall be the duty of the President to preside at all business meetings of the Association; to submit for the Alumni Council an annual report of the affairs of the Association; and to perform such other duties as usually belong to this office. The President shall be ex officio member of all committees.

Section 2. It shall be the duty of the Vice-President to preside in the absence of the President, and to perform all other duties belonging to this office.

Section 3. The Secretary-Treasurer shall keep the minutes of all meetings of the Association and of the Executive Committee; shall have the custody of all the books and papers; shall collect the fees and dues of members, and all moneys due or coming to the Association, and shall pay the same over to the bank or depositary of the Association. He shall disburse the funds of the Association under the direction of the Executive Committee. He shall keep the records and conduct the general correspondence of the Association, and make such reports to the Alumni Council as may be requested. He shall be ex officio member of all committees.

Section 4. The Executive Committee shall have all the powers of the Alumni Council when the Council is not in session, unless the Alumni Council shall, by a vote of two-thirds of those present, reserve certain powers unto itself. It shall be the duty of the Executive Committee: (1) to regulate the finances of the Association; (2) to pay the Secretary-Treasurer an adequate salary for services performed; (3) to direct the publication of the *Stanford Illustrated Review,* employing the editorial staff and supervising the general policy of the *Review;* (4) to have the accounts of the Association audited at least once each year and report the audit to the Association; (5) to fill, for the unexpired term, all

vacancies occurring by death, resignations, or otherwise; (6) to arrange for the program presented on any public occasion for or by the Association; (7) to perform such other duties as may be imposed upon it by the Council; (8) to attend to all the business of the Association not otherwise provided for in this constitution; (9) to canvass and secure recommendations from the local alumni clubs for candidates to be nominated for the Stanford National Board; (10) to appoint alumni members of the Board of Athletic Control, Union Board, or other boards or committees that the Alumni Association has authority to select, or desires to appoint; (11) to consult the alumni, undergraduates, faculty, and trustees, when it deems it advisable, in order to make recommendations regarding the welfare of the University and of the Alumni Association.

ARTICLE IV: DISTRICT DIVISIONS

Section 1. In order to bring the local alumni clubs and the general Alumni Association into closer relationship, the territory covered by alumni clubs shall be divided into twenty-two districts by the Alumni Council, as follows: (1) The Pacific Northwest; (2) the Southwest; (3) Central Mountain States; (4) Middle West; (5) Lake Region; (6) New England; (7) New York; (8) Middle Atlantic States; (9) the South; (10) Hawaiian and Philippine Islands; (11) Foreign Countries, and in California, a district corresponding with each Congressional district.

Section 2. Each local organization shall be known as the Stanford Alumni Club of ————————.

Section 3. The name "Associated Stanford Alumni Clubs" shall be used at all district and national meetings of alumni clubs.

Section 4. An annual meeting of each district shall be held at such time and such place as the officers of each district shall designate.

ARTICLE V: NOMINATIONS AND ELECTIONS

Section 1. The February issue of the *Stanford Illustrated Review* shall give notice of the annual nomination and election of officers of this Association. Said notice shall contain the names of the incumbent officers, and shall indicate the holdover members of the Alumni Council, and shall contain in full the provisions of this constitution relating to nominations and elections.

Section 2. The Executive Committee shall each year appoint a nominating committee of five members of the Council, at least three of whom shall not be members of the Executive Committee. The nominating

committee shall make its report to the Executive Committee each year by the fifteenth day of March.

Section 3. Nominations may be made also by petition. A nominating petition must be signed by at least fifty members of the Association and must be filed in the office of the Secretary-Treasurer on or before the first day of April of the year for which the nomination is made, and shall be valid only if the consent to such petition is endorsed thereon by the person in whose behalf such petition is filed.

Section 4. On or before the fifteenth day of April of each year, the Secretary-Treasurer shall mail to every member of this Association whose dues for the current year have been paid, an official ballot containing all the nominations, with the addresses of the nominees and the number of proposers of each, and said ballot shall be published in the April issue of the *Stanford Illustrated Review;* provided, however, that where no contests occur, the Secretary-Treasurer shall be empowered to cast the ballot.

Section 5. Officers shall be elected at an annual election to be held at Stanford University on Alumni Day, between the hours of 9 o'clock a.m. and 12 o'clock noon. The Executive Committee shall have charge of the election. The elector may cast a written ballot in person, or by mail, addressed to the Secretary-Treasurer, marked "Ballot" and disclosing the sender's name, and enclosing a ballot in a plain envelope. Ballots so received shall be opened and cast only during the hours of election. The respective candidates receiving the highest number of votes shall be declared elected. A tie vote shall be decided by lot.

Section 6. No one whose annual dues are in arrears for the current year shall be entitled to vote or to hold office.

ARTICLE VI: DUES

Section 1. The dues of the Association shall be three dollars per year for each member thereof, which amount shall include a subscription to the monthly alumni publication.

Section 2. A member, upon payment into the treasury of the sum of fifty dollars, at any one time and for that purpose, shall be entitled to a life membership in this Association, including a life subscription to the monthly alumni publication, and shall not be liable for any further dues. All such life membership payments shall be kept in a separate fund, of which the interest only shall be used.

Section 3. All members who, prior to May, 1908, have paid five dollars, shall, if they desire, be exempt from further dues.

ARTICLE VII: FUNDS

Section 1. The receipts from dues and from miscellaneous sources, and the interest from life memberships, shall be known as the current fund and shall be used for the current expenses of the Association.

Section 2. At the end of each current year, or at prior time if so directed by the Executive Committee, all sums in the current fund in excess of two thousand dollars shall be transferred to the reserve fund. All sums thus transferred from the current fund to the reserve fund shall be deposited in trust with the Board of Trustees of Stanford University, to be invested.

The income earned by the reserve fund may be withdrawn from time to time as directed by the Alumni Council, to be used for the purposes of the current fund; but there shall be no such withdrawal during any one year of an amount in excess of the earnings of the reserve fund for the year next preceding the year of such withdrawal.

Section 3. At such time as the reserve fund shall exceed the principal amount of twenty-five thousand dollars, then all sums in excess of said principal sum of twenty-five thousand dollars at the end of each current year may be used for the purposes of Stanford University at such time and in such amounts as may be determined by the Alumni Council, with the advice and consent of the Board of Trustees of the University.

Section 4. The Alumni Council may accept donations of funds for the promotion of the purposes of the Alumni Association, and shall apply such donated funds according to the conditions specified by the donor. Such funds shall be deposited in trust with the Board of Trustees of Stanford University, and may be withdrawn by the Alumni Council and expended only as specified in the trust created by the donor.

ARTICLE VIII: MEETINGS

Section 1. Of the Association. The annual meetings shall be held on Alumni Day of each year, and other meetings of the Association shall be held at such time as the Executive Committee shall determine. Notice of meetings of the Association shall be mailed by the Secretary to all members of the Alumni Council and to all alumni clubs, at least thirty days prior to the time of holding the meeting. All meetings of the Alumni Association shall be held at Stanford University.

Section 2. Of the Alumni Council. There shall be a spring meeting of the Alumni Council each year at Stanford University, the exact time to be determined by the Executive Committee. Special meetings of the Alumni Council may be called at any time by the President or by a majority of the Executive Committee, but notice of such meetings and

of the regular meeting must be mailed to each member at least four weeks in advance. In the case of special meetings, the Secretary-Treasurer shall specify the object or objects for which the meeting is called, and no business shall be transacted at such meeting other than that specified in the notification of the meeting.

Section 3. Of the Executive Committee. The Executive Committee shall meet at regular stated intervals to be determined by the committee. Special meetings shall be held at the call of the President of the Alumni Council, or of a majority of the members of the committee, the place and purpose of the meeting to be designated in the notice of the meeting.

ARTICLE IX: QUORUM

A quorum shall consist, in the Association, of twenty-five members; in the Alumni Council, of twelve members; and in the Executive Committee, of five members.

ARTICLE X: AMENDMENTS

Any proposition to alter or amend these articles of Association must be proposed in writing, signed by one hundred members, and submitted to the members by mail in printed form by the Secretary-Treasurer, and voted upon in the same manner as are nominations for officers, and adopted by a majority vote.

ARTICLE XI: RULES OF ORDER

Robert's Rules of Order shall govern in all cases not provided for by the foregoing by-laws.

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